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PULSE MODE PERFORMANCE MODEL COMPUTER PROGRAM DOCUMENTATION AND USER'S GUIDE. VOLUME II. AFPENDIX A. SOURCE PROGRAM LISTING. APPENDIX B. CARD CHANGES FOR SPECIAL DECK SETUP. APPENDIX C. INPUT DATA DECK LISTING FOR EXAMPLE CASE

W. D. Chadwick

Rockwell International Corporation

Prepared for:

Air Force Rocket Propulsion Laboratory

November 1972

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VOLUME II

APPENDIX A: SOURCE PROGRAM LISTING

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Pulse Mode Performance Model Comp	uter Program	Final Report
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19. KEY WORDS (Continue on reverse side if necessary and	nd Identify by block number; Thrust Chambers	
Liquid Propellant Rocket Engines Restartable Rocket Engines	Pocket Nozzles	, , , , , , , , , , , , , , , , , , ,
Pulse Mode	Performance Eff	• • • • • •
Combustion Analysis	Injectors	·
20. ABSTRACT (Continue on reverse side if necessary an	d identify by block number)	
The Pulse Mode Performance Model	computer program	has been developed to pro-
vide an analytical tool for accu		
of attitude control rocket engine	•	
parameters predicted are propella impulse for individual pulses and		
pulse mode operation is applicabl		· ·
for thrust to approach its steady		

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not so rapid as to prevent thrust from decaying below 10 percent of its steady-state level between pulses.

This volume of the Users Guide, along with three others, and the final report (AFRPL-TR-72-16), contains sufficient descriptive information and instructions for knowledgeable people to use the Pulse Mode Performance Model computer program with a minimum of difficulty. The first volume describes the computer program, its required input data, special operating instructions and output. Volume II contains a listing of the source program coding (excluding subprogram TDK), of card changes for special desk set ups and of the input data used in the example case. Volume III contains the complete printout of the example case. The last volume (IV) is a listing of the TDK source program coding.

PULSE MODE PERFORMANCE MODEL COMPUTER PROGRAM DOCUMENTATION AND USER'S GUIDE

VOLUME II

APPENDIX A: SOURCE PROGRAM LISTING

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APPENDIX C: INPUT DATA DECK LISTING FOR EXAMPLE CASE

Prepared By:

W. D. Chadwick

Prepared for:

Air Force Rocket Propulsion Laboratory Director of Laboratories Air Force Systems Command United States Air Force Edwards, California

> Contract F04611-70-C-0074 November 1972

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Rocketdyne

A Division of North American Rockwell Corporation 6633 Canoga Avenue

Canoga Park, California

FOREWORD

This computer program documentation was prepared by the Advanced Programs division of Rocketdyne, a division of North American Rockwell Corporation, 6633 Canoga Avenue, Canoga Park, California. This document was prepared in accordance with and in partial fulfillment of Contract F04611-70-C-0074, Pulse Mode Performance Model (Project No. 3058, Program Element No. 6.23.02F), during the period 1 July 1970 to 21 September 1972. This contract was administrered by the Air Force Rocket Propulsion Laboratory, Edwards, California. The Air Force Project Officer was Capt. S. Rosen, who replaced Dr. Clark Hawk. Initially Mr. T. A. Coultas was the Rocketdyne Program Manager, with Mr. L. P. Combs replacing him just prior to the program extension.

APPENDIX A

SOURCE PROGRAM LISTING
(OTHER THAN PMDER/TDK SUBPROGRAM)

PMPM0010 PMPM0620 PMPM0030 PMPM0100	PMPM0114 PMPM0116 PMPM0118 PMPM0120	PMPM0124 PMPM0126 PMPM0130 PMPM0140 PMPM0200	PMPM0600 PMPM0820	PMID0010	PMID0020 FMID0030 PMID0032	PMID0640 PMID6050 PMID0060	PMID0070 PMID0060 PMID0090 PMID0092	PMID0110 PMID0120 PMID0130 PMID0140
AMAT(72), CDATE(2), ILISP, ISTC, ITRANS, ITDK, IPU	IF(JLISP.NE.U .OR. JSTC.NE.O .OR. JPULSE.NE.O)CALL PPIN 60 TO 20 10 CALL PMPMID 20 IF(ILISP.NE.O .CP. ISTC.NE.O .OR. ITDK.NE.O) CALL PMDER	IF(IPULSE.NE.U .AND. ILISP.FQ.O .AND. ISTC.EQ.O) IF IPULSE.FQ.1) IF(IDCYCL.EC.1) CALL CALL CALL	C -4 :	PMID	7 5 7 /	0 30	SFAD(5,10,END=74)	, CO HN

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3 25X 43HDEVELCPED 3Y W D CHA 4 40X 5 40X 6 40X 30HCANDGA HRITE(6,50) AMAT	X 53KSPCNSGRED BY X 53KSPCNSGRED BY X X 31HVERSIGN X TE(6,60) CDATE MAI(1H0 50X 2A4)	1LISP, 1STC, JLISP, 1STC, JLISP, JSTC, ISP = 12, 4X 7HISTC = ISP = 12, 4X 7HJPULSE = ISP = 12, 4X 7HJSTC = STL = 12, 4X 7HJIGN =	INPUT ERROSE / FIED FOR CASE / 33H* * E N D

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- 75.	3P(15), XMRM, TVSONO(18,3)	PPIN0160	
/IGNFED/	TUPPE, CPLE, TOPPO, CPLO, NRHOF, NRHOO	PPIN0170	
	APF, NPVAPO, TPLF(12), TRHOF(12), TTRLO(12	IN017	1
TRECO), TPVAPF(12),TTPVC(12), 1	PPIN0174	
/XY/XKF(), TVF(20), TVO(20),	PPIN0180	
CPVAF	(20), TCSNVF(20), T	PPIN0200	e seem dept.
FTXP	(5), FKP(95), OKP(95)	PPIN0220	4
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or .	LVE, INSC, TED, RHONED, R	PPIN0260	
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	NST, NGT, NGE, NGD,	PPIN0320	i
	TWFLF, TMF	PPIN0340	
	NO, NPO, SNCR, IZ, II	PPIN0360	
113	SCS. ZINCR, IKPF, IKPC, LAX	PPIN0380	
r-i	I, NEPS, PANS, AEXIT, ECFVAC,	PPIN0400	
Ž	INS. PIE SYAPF RVAP	PPIN0420	
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	OEXIGN, DPRI	PPIN0460	
/16N54/	LIMPF, CPSF, CPVF, MUVF,	PPIN0480	
	., ALPHAF, STENF, THTF, FMAXF,	PPIN0500	
	EDVF, CVVF, PVF, DELTNF, THET	PPINC520	
	MDVF, MWALLF, KDF, NIF		
/16N64/	, LITC, LIMPO, CPSO,	PPIN0560	
	DSC, LMBCFC, ALPHAC, STENO, THIO, FMAXO, F	IN058	
	EDVC, CVVD, PVO, DELTNO,THETAG,	60	
	, MDVO, MWALLO	PPING620	
/LAB1/	THETAR	PPIN0630	

	PPIN0878 PPIN0880 PPIN0882 PPIN0890 PPIN0892 PPIN0894	PPIN0896 PPIN0900 PPIN0902 PPIN0904 PPIN0905	PPIN0908 PPIN0910 PPIN0920 PPIN0940 PPIN0960	AC
DENSI, DENS2, CKPI, CKP2, DNSAII, DNSAI2, PX, DNSAXI, CNSAX2, SDNSAI, SDNSAZ A22/ VISCI,VISCZ,RHOG, EPS, IDBAR(10), STENI,STENZ,CDBAR(10), STENI,STENZ,CDBAR(10), STENI,STENZ,CDBAR(10), STENI,STENZ,CDBAR(10), STENI,STENZ,CDBAR(10), KCF, LMEDSF, LMBDFO KCC, LMEDSC, LMBDFO (12)	OF COMBUSTION GAS PROPERTIES VS MIXTURE RATIO. ACH NUMBER. TITLEP VMP. NMACH, NEPS, NTK NNR. NMACH, NEPS, NTK NNR. NMACH, NEPS, NTK NNR. NMACH = 19, 9H. NMACH = 19, 9H. NEPS	NTK = 19) (TMR(I), I=1, NMR) MR+1)/2 9(V4R2) NMR = TMR(I)/(1MR(I)+XMRM)	.4NJ. JPULSE.EQ.O .AND. JLISP.NE.2) GO TO 32 CH(J),J=1,NMACH) CH STAT(I),1=1,NMR) VIS(I,J),I=1,NMR)	AM(I,J),I=1,NMR) SCN(I),I=1,NMR) SCN(I),I=1,NMR) R (TGAM(I,J)-1.)/2.*FMACH(J)**2 STAT(I)*GAMFAC TVSCN(I)*SCRI(CAMFAC) TMACH(J), TITLEP, (TMR(I), TSTAT(I), TVIS(I,J), TWSCN(I,J), TVSCN(I), TCXFRP(I), I=1,NMR) SHECUILIBRIUM COMBUSTION GAS PROPERTIES AT MAC
COSMON ZI REAL MUVE FERMAT (18 B FORMAT(1H 10 FORMAT (61	C * * * * TABLES C * * * * TABLES C APD(5,5) PFAD(5,10) WAITE(6,12)	3EAD(5+15) XMS2 = (XMSM = (00 14 I= (10 XFPP(0 4 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ADCOMENTATION OF THE CONTRACT

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	30 FORMAT(9E WIMLLE IPE10.3, 8H WIMLLC E10.3, 8H WIMLVF E10.	END OF STCINPUTS	250 IF(JPULSt.EG.0) GS TC 40	270 READ(5,10) NOHOF, NAHOD, NPVAPF, NPVAP	74 FORMAT (24HG PAGPELLANT PROPERTIE	efab(5,20) (TTALE(I),I=1,NRFOF	TAD(E) (TETOLO (I) THISAKED			CAU(S,20) (TTPVC(I), I=1,N'VAPC	CARLOADED CERTAIN ALTERNATION NEVARIOR NPVAP	STREET OF THE PROPERTY OF THE STREET OF THE	COLUMN AND AND AND AND AND AND AND AND AND AN	28173(6.050) (TTRLF(1).1=1.NRHO	90 FCRMAT(2X 7HTTRLF = 1P6E13.3 / (9X 6E13.	Welte(Syson) (TPHOF(I) FIRINAROF)	CO FORMATION TOTAL TOTAL TRANSPORT NOTE OF TRANSPORT NOTES.	**************************************	Mr ITE(6,320) (TRHPP(I), I=1,NRHCO)	20 FORMAT(2X 74TRHC) = 1P6F13.3 / (9X 6E13.		AND THE TANK THE TANK THE TRANSPORT OF T	20 000 000 000 000 000 000 000 000 000	COMPANY (I) CADALL (V) FILL (V) FILL (V) FILL (V)	• ELEVATOR (9X 6E13 • S / (9X 6E13 • S / (9X 6E13 • S	WOTTERS. SPE (IPVAPC(I), I=1,NPVAP	26 FCANAT(CX THTPVAPP= 1P6E13.3 / 19X 6E15.

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ン () ジュー	150 PT/	RR. COM7D(45),	ENGB0120	
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	# POSNAT (2112, LT12, E)			0 115 (1.47) 1 1772+ 1742(4) ECSMIX, ECSENR 2 F. 17 (1.47) 1 VENF, 4742(4) ECSMIX, ECSENR 2 F. 17 (1.47) 1 VENF, 12 10.3, EH RVAPCE	= 1PF10.3, 6H RR = F10.3, 8H FLL = E10.3, 6H 88TOLZ= 110.3) *, PFLF, AMF, RFNF, RFIF, 0, RFLO, AMG, RFNG, RF10,

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OF REFERENCE, SEE R. ZURMUEHL, PRAKTISCHE MATHEMATIK FUER. NGENIEURE UND PHYSIKER, SPRINGER, BERLINZGGETTINGENZ	RIN10490
NGSWIEURE UND PHYSIKER, SPRINGER, BERLIN/GCETTINGEN/	RINIO
	RINIOSIO
EIDELBERG, 1953, PP.12-17.	RTNI0520
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. RINI0580 RINI0590	RTN10600 RTN10610	RTNI0630 RTNI0640 RTNI0650	RTN10660 RTN10670 RTN10680 RTN10690 RTN10700 RTN10710	RTN10720 RTN10730 RTN10740 RTN10750 RTN10760 RTN10770	9 TN 10780 RTN 10790 RTN 10800 RTN 10810 RTN 10820 RTN 10830	RTN10840 RTN10850 RTN10850 RTN10880 RTN10890 RTN10910 RTN10910
C PREPARE ITEPATION	IER=O X=XST	- 0 -	TART IT C 6 I=1 F(F)1,7	1 IF(DERF)2,8,2 ITERATION IS POSSIBLE 2 DX=F/DERF X=X-DX IOL=X	CALL FCT(TCL,F,DERF) C TEST ON SATISFACTORY ACCURACY TCL=EPS A=ABS(X) IF(A-1.)4,4,3	3 TOL=TOL*4 4 IF(ABS(DX)-TOL)5,5,6 5 IF(ABS(P)-TOL)7,7,6 6 CONTINUF C END OF ITERATION LOOP C C NO CONVERCENCE AFTER IEND ITERATION STEPS. ERROR RETURN. IEP=1 - AGTHER

RINI0940 RINI0950 RINI0966 RINI0970 RINI0980	FCTP1010 FCTP1020 FCTP1030 FCTP1040 FCTP1090 FCTP1100 FCTP1800 FCTP1820	CDTR0020 CDTR0040 CDTR0060 CDTR0100 CDTR0120 CDTR0140 CDTR0140 CDTR0160 CDTR0180 CDTR0200 CDTR0220 CDTR0220 CDTR0220
C EPROR RETURN IN CASE OF ZERO DIVISOR B IEREZ RETURN END	SUBRCUTING FCIPIE(P,F,DERF) CCMMCN /EBCLM/ C1, CF, CO, PVF, PVO C SALPF = SCRI(AMAXI(O.,PVF-P)) SFOPC = SCRI(AMAXI(O.,PVC-P)) 10 F = P - 2.*C1*(CF*SRDPF+CO*SRDPO) C PTURN END	SUBSCUTING COTRAN C. ** SUBRCUTING PROVIDES TRANSCHIC NOZZLE FLOW DISCHARGE COEFFICIENT. C. CCRYON / CON7/ GA, RR, DUM(46), CD C. CCRYON / CON7/ GA, RR, DUM(46), CD C. RPI = RR + 1. C. ER + 1. C. ER + 1. C. ER + 1. C. RPI = RR + 1. C. RP

CONTROL SUBPROCRAYS

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TIMEO010 TIME0020	TIMEG022 TIMEG030 TIMEG040	TIMEO042 TIMEO044	TIME0048 TIME0050	TIMEOC70 TIMEOC80 TIMEOO82	TIMECO90	LOCFOOIO	LOCF0020 LOCF0030 LCCF0040	LCCF0050 LCCF0060 LCCF0070	LOCF00&U LOCF0090 LOCF0100	LCCF0110 LCCF0120 LCCF0130	LGCF0140 LGCF0141 LGCF0142 LGCF0150
UBRUCTINE IMPASION D	ATA TATI 707 AL CDATEVIDAT ALL CLOCK (TIME	F(INIX-5C-1) 6 NIT = 1		PITE(6,10) DATE, CRMA1(1H) 22X, 7 32HCTMM1LAIIVT CP	PETUNN END	ROUTI.S LOCERC(JK, X,1X,NX, JX,FX)	CONSTITUTION OF FAMILY INCOME.	LOCATION OF K FROM TX(JX) CALCULATES SCALING FACTOR FX = (X-TX(JX)) / (TX(J) IMENSION TX(1)	X = 0. X = 0. F(Xx.[f.1) GO	= 1. F(TX(1).61.TX(VX)) S2 = A5S(TX(VX)-TX(K. NE. 1) CO TO 90 C .GT.O.) CO TO 30 20 I=2,NX

00000000	00000	LOCF0280 LOCF0280 LOCF0300 LOCF0320 LOCF0330 LOCF0350 LOCF0350	
TX(I).6T.TX(I-1)) CC TC 50 ITINUE 40 I=2,NX TX(I).LT.TX(I-1)) GO TC 50 ITINUE 90 90	(181 41X 2785 & R O R 1 N 1 A B L E) (6,80)		IX(I)-X)#S) 12C,2CG,1CC INUE 1) JX = JX-1 IX(JX)) / (TX(JX+1)-IX(JX)) IXAMIMI(IX(I),IX(MX))-XR2) GG 1C 150 IXAMIMI(IX(I),IX(MX))+XR2) GG 1C 150 IXAMIMICAN IX
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 2 40 4 7 5 10 4 1	96 NX1 = 96 NX1 = 1	120 CC 130 IF(JX = FX = IF(150 SVITE 160 FORMA 154 SOW 50 TO 200 EVD

310	120	30	040	50	052	090	020	080	060	192	760	360	001	102	104	110	120	081	132	34	136	071		110	020	080	040	000	090	010	080	060
DINTROIC	DINTR	DINTR	DINTR	DINTR	DINTR	DINTR	DINTR	DINTR	DINTR	DINTR	DINTR	DINTR	DINTR	DINTR	DINTR	DINTR	CINTR	DINTR	DINTR	DINTR	DINTR	DINTR	· .	YOFOO	YDFOO	YBFOO	YCFOO	YOFOC	H	YOFOO	YDFOO	YCF00090
	2							THE REPORT OF THE PROPERTY OF				60 76 30					IN1RP + F2*(A(I12)+F1*LZ)							the state of the s		LATICH FUNCTIC	USING POINTS		3 LX	ERPOLATE	3	
UNCTION DINTRP(- ACOMU	I MARKINION A (1)	S SYPASS	5.11 C	 ::	11 = (3	21 = 111 +	12 = I11 +	ET = 22	اسم	Ç,	F. C. ST. N. ST. K. S. 19	F1.F5.0.) SC 15 20	1111 + (121) + (111)	Z(I) = Z(I) = Z(I) = Z	+ (III) + = dalbI	STRIG	in Li	105 1TV	¥(.)	}			FUNCTION YOF (X+XT,YT,NP)		DESCRIPTION TORVERS TRANSPARED	APPRICATED AND AND AND AND AND AND AND AND AND AN	1 F(X)	USES SUP ESCATE TO INSPECT	DE GASTEX ASSESSOR SAFAR TO	WAITIEM DEC 20, 1967 B	ن

YDF00020	PRGGRAM YDF00030	YCF00040	YGFOCOSO	TO LOCATE INTERP PTSYCFOOGO	YDF00070	1-353 YOF00080	YCF00090	YDF00092
	SINGLE LASSANGIAM INTERPCLATION FUNCTION SUSPRGGRAM	AP POINT INTERPOLATION USING POINTS FROM XT, YT ARRAYS	YCr = F(X)	USES SUPLICIONE TO INSPECT XT 8 YT ARRAYS AND TO LOCATE INTERP PTSYGFOOGO	AND PUNCTION XITAP TO INTERPOLATE	WRITIEN DEC 20, 1967 BY W D CHADWICK, D/991-353		10 / cash Fall 10 / cash 1

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YGF00100 YGF(0110 YGF00120 YGF00130 YGF00140 YGF00200 YGF00210	200	LOCA0013 LOCA0014 LCCA0015 LCCA0016 LCCA0017	LGCA0019 LCCA0020 LCCA0030 LGCA0040 LGCA0050	0CAC07 0CA009 0CA010 0CA011	LCCA0120 LCCA0130 LCCA0140 LCCA0142
<pre>DIMENSILN X7(1),Y1(1) CALL LOCATE(X,X1,N,NP,K,IX,13) IF(IR,S1,0) NEPS = NERR + 1 IF(NFPR,G1,0) XT(\$C0000) = 0, YOF=XITEP(X,Xf(K),Yf(K),IX) RETURN FOR STORM FOR STORM</pre>	SUBRCUTING LOCATE(X,T,NT,11,K,1X,1R) INPUT ARGUMENTS	X L L L A A L A	10v ((1)	T.L.F.1.CR.1I. I(NT)-T(1))*. BS(XR).LT.1.E =T(NT)+XR =T(1)-XR	4. LT. 0. 4. NO (1.1
· ·		000000	J	* * * * * * * * * * * * * * * * * * *	U

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014	014 015 015	017	LOCA0200 LOCA0210 LOCA0212 LOCA0214 LOCA0216	LOCA0218 LOCA0220 LOCA0222 LOCA0228 LOCA0230	LOCA0250 LOCA0260 LOCA0270 LOCA0290 LOCA0310	1(1-1j)) K=K-1	LCCAC380 LCCA0390 LCCA0400 LCCA0410
c ccencins t IF(x.Lr.T(NI-1)) 60 T0 6	1F(T(2)-X) E,10,10 C ASCENDING T	4 IF(X.LF.1(27) 60 10 2 IF(X.LF.T(NT-1)) 60 T0 10 6 K=NT-1	HKHKHU	0 0 0	20 CCNTINUE K=NT-IX+1 R=TUPN 20 IX=1 RETURN 40 IXD2=IX/2	<pre>X=1-1XD2 IF(X*LT*2) GD TO 50 IF(Z*1XD2*LT*IX *AND* ABS(T(I)-X)*GI*ABS(X-X=MINO(K*NI-IX*I) 50 K=MAXC(K*I) ASTURN</pre>	C 1688=1558+1 19=1 WRITE(6,1010) NT,11,X,(F(I),1=1,NT)

は、一般のでは、10mmである。 10mmである。 10

8Y SUB LOCATE, CALLED BYLO // (1P7E15.7)) LO LO LO LO	RP01 RP02 RP03 RP04	FCR INTERP. & CK ARRAYS XITRPOR 15, 1967 XITRPO9 XITRP10 XITRP12 XITRP13	TRP 14 TRP 15 TRP 16 TRP 18 TRP 19	XITRP200 XITRP210 XITRP230 XITRP240 XITRP250	TRP 26 TRP 27 TRP 28 TRP 29
1010 FCAMAT(1H1 15% 76HE R R C R ENCCUNTERED 1 SUB YOF 111 READING TABLES // 40% 2110 CALL EPRTRA RETURN END	C LAGRANGIAN INTERPOLATION C LAGRANGIAN INTERPOLATION C Y = XITRO = F(X) INTERPCLATING U C C Y = XITRO = F(X)	USE SUS LCCATE TO DETERMINE FIRST POINT MAITTEN BY N D CHADWICK, D/991-353, DEC DIMENSION XT(1), YT(1), DX(10) LE(N-2) 10,20,30	(1) 100 XT(2)-XT(1) SS(0X1)-(1-1-F-20)	(YT(2)-YT(1))*(X-XT(1))/ 00 -XT(1) 1)	DC 40 1=2,N DY(1)=X-XT(1) 40 PIUX=PIUX*UX(1)

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(ITRP300 (ITRP310 (ITRP320 (ITRP340 (ITRP350 (ITRP350	XITRP360 XITRP390 XITRP400 XITRP410 XITRP420 XITRP440 XITRP450 XITRP500	1TR20010 1TR20020 1TR20030 1TR20040 1TR20050 1TR20070 1TR20074 1TR20074 1TR20076 1TR20090 1TR20090 1TR20090
	X X X X X X X X X X X X X X X X X X X	M2,12, YT,L1, Y) T I O N W D CHADWICK 4-22-69 2(10) L1)
	<pre></pre>	SUBSCRUTING ITPPE(XI,TI,NI,II, X2,T2, D D U D L S I N F E R P O L A SIMILAR TO ITRP4 - X(N), I PT INTRP DIMENSION TI(1),T2(1),YT(LI,1), Y GO TO 2 ENTRY ITSP2I(TI,MI,II, T2,N2,I2, YI, RETURN TRP2X(XI,X2,Y) 2 12X = 1 4 CALL LOCATE(XI,TI,VI,II,KI,IIX,IR)
J	မ ပ ပ	ບບບບ ບ

ITR20102 ITR20110	ITR20120 ITR20130 /// ITR20132	1FR20134 1TR20140	11R20150 1TR20152	IIRZO170 ITRZO160	ITR20190 ITR20200	1TR20210	17K20220 17K20220	ITR20240	ITR20500	ITR20510		GUADOLOG	= 0)QUADO120	QUAD0130	QUAD0140	CUAD0150	QUAD0160	QUADQ170	QUAD0172	QUAD0174	QUAD0176	CUAD0178	200	0UAD0190
F(1%,6T.c) 69 TC	60 10 20 NI,N2,XI,X2, (T2(J),J= 0X 43HS R R R IN I	x 20x 218, 1P2E15.5 // (17x 6E15.5)) 00 12 1=1,N1	PITE 16.	C CONTINUE	#27 00 00 00 00	2(32)=XIT	\$1.5V. (\$3)\$7.5V.00TIV = V	11111111111111111111111111111111111111	<u>ត</u>	C.Z.	A MAN TO THE THE PARTY OF MAN TO PROPERTY OF THE PARTY OF	FUNCTION GUAD (A, 8, C, X)		SETS DUAD = 900T WITH SMALLEST ABS. DIFFERENCE FROM X	XI = (-8+0)/24 = 2C/(-8-0)	XZ = (-E-D)/24 = 20	WHERE D IS DISCRIMINANT SORT (B**2-4*A*C)		FTA X	かってい	CUAD = -C/E	001 CL 00	₩. •	13 = 2.

QUADO200 QUADO204 QUADO206 QUADO208 QUADO210 DISCRQUADO220 5.6, QUADO230 QUADO230	QUADO244 QUADO246 QUADO250 QUADO270 QUADO270	CUADO282 QUADO290 QUADO300 QUADO310 QUADO330	QUADO340 QUADO350 QUADO360 QUADO370 QUADO380 QUADO390	0UAD0400 0UAD0410 0UAD0500 QUAD0510 CUAD0520
.5	SSED *	bo same		
COMPLEX ROOTS	S SUPPRESSED			
C, D2 TS YIELD CON 3H8 = G15.0	21			•
A, B, C, ARGUMENTS	QUAD			AD = X2
,11) 6,12) QUAC A = G1	WRITE(6,14) ANY ADDITIONAL			-x)) QUAD
30 + 1 WRITE(6 0) WRITE(FUNCTIUN 0. //43H *A*C = G15	A WRITE	50 TD 32 485(5) 65 TD 40 714	60 TC 50 (-8-D))/TA //TA (-8-D)	CT. 4 BS (X2
10,20, KOUNT NT-LE-3 (1H1) NT-LT-2 (72H0 SET = H3**2-4	UNT.EG.2 T(5546 = -8/TA 100	55 (10 1. 0. 05 1. 0. 05 1. 0. 05 1. 0. 05	LT.00.) G9 TC = 2.*C/(-8-D = (-E-D)/TA 60 = (-5+D)/TA = 2.*C/(-8+D	
15 (52) 10 KCUNT 1F(KOU 11 FCRMAT 12 FORMAT 11 FORMAT 2 4X 12	14 FCRMA 20 204D 50 TO TO 50 D = S(IF(B. R= A IF(R. 32 X1 . CO TO	46 1F(B. X1 X2 X2 60 70 X2 X2	60 QUAD = IF(A5S(100 RSTURN END
	J	See Space		U

PUN10010 PUN10020	PUN10030 PUN10040 PUN10050	PUN10060 PUN10070	PUN10080	PUN00010	PUN00020		PUNGO060 PUNGO062 PUNGO070	PUN00080 PUN00090	PUNGO110 PUNGO120 PUNGO130	PUN00132 PUN00140 PUNC0142	PUN00150 PUN00160 PUN00300	PUN00310
SUSRCUTINE PUNI(A1, A2, A3, A4, A5, A6) COMMON /PUNIC/ NSEQ, CID	NSEG = NSEG + 10 WRITE(6,10) Al, A2, A3, A4, A5, A6, CID, NSEQ 10 FORMAT(10X 1P6E12.5, A4, 14)	PUNCH 20, Al, AZ, A3, A4, A5, A6, CID, NSEQ 20 FORMAT(IPSFI2.5, A4, I4)	RETURN	SUBROUTINE PUN(A,N,AID,NSER)		C LIST E PUNCH ARRAY A USING IPE12.5 FORMAT C	DIMENSION A(1), F(3) OATA KL, ELANK, SPACE/-1, 4H 10X /	IF(N.GT.6000) A(800000) = 1. 50 10 II=1.N.6	NINC CONTRACTOR	= SPACE E(0,F) (A(1),1=11 = FLENK	10 PUNCH F, (Å(I),I=I1,I2), AID, NSEQ 0. 32TUPN	

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SUBBOUTINE SAMATIN, FINL)	S4MATO1C
	S4MAT020
C SETS UP SPECIAL FERMAI TO FILL UP BO COL ON PUNCHED CARDS	S4MAT030
	S4MAT040
DIMENSION A(6), B(12), F(8)	S4MAT050
	S4MAT050
ATA A/ 1 (E12.5.	S4MAT080
A BZ + 1P160X, 1P2	S4MA T090
And the state of t	S4MAT100
IF(NL.611) 60 10 10	S4MAT110
(1) = A(1)	S4MAT120
F(2) = L(2)	S4MAT122
) = (7)	S4MAT130
(5) = A(S4MAT132
	S4MAT140
(8) = 1	S4MAT150
	S4MAT170
	S4MAT180
1 (2)	S4MAT190
	S4MAT200
> -	S4MAT210
	S4MAT220
WAITE (6,20) 2.F	S4MAT230
20 FGRM1T(16,5X 844)	S4MAT240
J. T.	S4MAT250
	S4MAT400
gha	S4MAT410
SUBREUTINE LERIDE	LGRIDO10 LGRIDO20
GENERATES LINEAR CRT GRID	LERIDO30
XI XV XIXX GENERAL	LCRIDO40 BY LCRIDO50
CICAL TANK TANK TO THE TANK OF THE TANK TO	
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700 700	008 009 010	011	LGRID140 LGRID150 LGRID160	71017 1018 1019	1020 1021 1021	1021 1022 1023	1024 1025 1026	1027 1028 1023	1030 1031 1032	LGR1033C LGR10340 LCR10350 LGR10360	103 103 103
ML, ME, MS, MT, MS, MT, MS, MT	COR	CALL CAMRAV(9)	1	X & Y PLOTTING RANGE = X8-X3 = Y5-Y4		# YE-YA ALL SCALE(XA,X F(18,F0,1) PET	S O U	SET RIGHT AND TOP MARGINS AF RUI = AMINI(FLOAT(1023-ML-MR)	MG2 = 1023 - ML - INT(DRDI#X MGT = 1023 - MS - INT(DRDI#Y MIL SETMIV(ML.MGR.MB.MGI)	GC TO 20 10 CALL SETMIV (FIL, MA	C GENERATE GRID ZO CALL DXSYV(1, XL, XP, 0, M, J, N, 12., IR) IF(1R, £0.1) RETURN

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LGRID390 LGRID400 LGRID410 LGRID420 LGRID430	LGRID432 LGRID440 LGRID442 LGRID450 LGRID460 LGRID470	LGRIDE10 LGRIDE10 SCALE020	SCALE030 SCALE040 SCALE100	SCALE110 SCALE120 SCALE122 SCALE130 SCALE140 SCALE150	SCAL E160 SCAL E170 SCAL E190 SCAL E200 SCAL E220 SCAL E220 SCAL E220 SCAL E220 SCAL E220
** ;	C GENERAL GRID (DR SQUARE IF K=2) 20 CALL DXDYV(2, YB, YT, DY, MY, JY, NY, 12., IR) If (IR.EQ.1) RETURN IF (K.EO.2) MY=-MY CALL GRIDIV(1, XL, XR, YE, YT, D, DY, M, MY, J, JY, 6,6)	X, NC, X	C RETURNINES INCREMENT AND LIMITS FOR SCALING AXIS C INPUT XMIN, XMXX, ND CUTPUT XI, XZ, DX, IERR YL = 0.0	<pre>1F(XMIN.LT.0.0) XL= -1.0 2 = (XMAX-XMIN)/FLGAT(ND) XE=1. 1F(R.GT.0.0) GO fO 5 1ERR = 1 1ERR = 1</pre>	2 FCRNAT(// 9X 24HERRDR IN SCALE ARSUMENTS ZE16.5, 18 //) REFURN 5 IF(1.c-e) 10,100,50 c * * B LAFGER THAN 1. * * 10 CO ZO I=1.50 X5=X6*0.1 SA=5*XE NB = EB 1F(NE) 20,30,26

CALE CALE CALE CALE	CALE	ALE37 ALE37 ALE39 ALE40 ALE40 ALE41		LINEO030 LINEO040 LINEO050 LINEO060 LINEO070 LINEO070	
*XE.)		6.5	NDX,NDY,L)		TPT I I NCR TC PLO
20 CCNTINUE 20 DX=AINT(10.0*ED+.5)/(10.* 60 TO 1:) C * * B LESS FHAN 1. * * 50 DO 60 I=1,50	3	GO TO 110 DX = 1.6 XI = AIMT(XMIN)+XL GC TC 120 II=XMIN/(2.*DX)+XL XI=FLOAT(II)*2.*DX NX=(XMAX-XI)/(2.*EX)+.99 X2=X1+FLCAT(NK)*2.*DX IFRR = C	LINEG(W, X, Y,	C R T L I N S G E N IS NUMBER OF P X AND Y ARE COOR	AND NOY ARE S S LINE IN ANSII IAL FEATURE - N

)	TERO
, . ==	LINEOISO
A1 = IA85(%)-1	LINEO14
H	INEOIS
= NAA(A'AA)	LINEO16
IF(N.LT.0) IYIN = VYV(-Y(JY))	INEO16
	INEO17
DC 100 I=1, 11	INE018
X = 1K+√0X	INE019
 }	INE020
IXS = VXV(X(JX))	INE021
2 X I	INEG22
	INE023
100 KM 110 110 110 110 110 110 110 110 110 11	INE024
50 CALL LINEV(IXI,IYI,IXZ,IYZ)	INE025
I F (N	INE025
-	INE025
1 × ≥≤	INE025
DC 60 X=1•L	INE025
60 Call LINSV(IX1.IYIM.IX2,IYZM)	LINE0260
NI VI	I NE 0 26
	INE026
×	INEOZZ
100 IY1 =	INE028
	INE029
NXO14	INE030
Lui Zp	INEOBL
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	SI PURDI

LBL00020 LBL00030 LELCOOSO 18100058 SETMIV(24,0,24,42)LBL00640 MENSION TITLE(18), AMAT(36), ABSI(9), CRO(9)
SUE TOFE NOT ADVANCE FRAME
NOTE PETUIPED ARRAY SIZES— SET MARGINS WITH PGINTV(72, TITLE, 262, 1017)

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LBL00062 LBL00062	LEL00070 LEL00072	LELOGOSO	LEL00090	1.81.00100	18100110		MXMN0020	OKOONWW	MXMN:0040	MXMN6050	MXWN0060	MXMNCOZO	MXMNC080	OSOONWXW	MXMN0100	MXMN0110	MXMN0120	MXMNO130	MXMN0140	MXMNO150	MXMN0160	MXMN0170
~ ×	CALL PRINTV(4, AMAT(I), IX, 1002)	CALL RITEZV(9.184.1023.180.	TEZV(227,9,1023, 90,3,36,1,	NonLia	i) Nu		SUBSCIPTION MXMV-L-4-1) WXMV-L-4-1	_	CH A X AND	C L = 2 MAX GYLY	THE SHIP OF	$\psi \psi v = A(1)$	$\forall m_{\rm K} = 4(1)$.LE.1) REJ	IF(L.CT.2) 60 TC 20	, 27 100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TF(L.5%.	7=1 08 JG 9	× 4	NOTE: A STATE OF THE STATE OF T	

A CALL OF THE PARTY OF THE PART

PE PNDER DISTRIBUTED ENERGY RELEASE NCCKET ENGINE PERFORMANCE CCMPUTER PREGRAM ZEADA AMAT(72), COATE(2), ILISP, ISTC, ITRANS, ITDK, IPULSE, SPN-G.C. LND. ISTC.EG.C) GO TO 50 STALL1, ISECC) SNALL1, ISECC) SNALL1, ISECC) SNALL1, ISECC) STALL1, ISECC) STALL3, ISECC,	0.0000 M H U	DER00110 DER00120	DEROO200 DEROO200 IDCYCL DEROO220	DERCG500 DERCG540 DEROG560	DER 00560 DER 00600	DERGO621 DERGO622	DERO0625 DERO0626 DERO0630	DEROC640 DEROC650 DEROC660 CERCC66E	DERO0680 DERO0700 DERO0720 DERO0760	DERO0910 DERO0920 DERO0930 DERO0930
## PMDER ### DISTRIBUTED ENERGY RELEA ###################################		PREGRAM		on American State of the Control of		Tr				
## PMDER BUTED ### DISTRIBUTED #### DISTRIBUTED #### DISTRIBUTED ####################################		9 1	- C - C - C - C - C - C - C - C - C - C	The same of the sa		5 01	in the second of	ρ.		
7. PND F.3 7. FAD / 7. FAD / 7. SVV / 8. S		SUTED	ST.				<u> </u>	160 18P.EG.O)	TO 20	Andreas in Administration of the Company of the Com
COMMON LESS OF E COMMON LESS OF E COMMON LESS OF E CALL LESS OF E		13 X	/FEAD/	e = SS	' (a' '' ' (a' (a' -⊔	Sp. 62.0 Sp. 62.0 Sp. 41.1 + 1	C. FR. C)	STC(1) LT.0) -61-1	TRANS PREC.25) PRSTC(NST CPRS CPRS TDK NE 0)	411175 11175 1179 1179 1179

EADOG2	்ய ய ய	013 014 015	AD026 AD026 AD027 AD027	LISPOO IXLISPOO	LISP006 • LISP006 LISP005 LISP007 LISP006	LISPOID LISPOID),LISPOID),LISPOIG LISPOIG	LISPOI LISPOI LISPOZ
205	2115 25.83	NAITE(6,15) FORMAT(//// 36% 37HSTEADY—STATE PERFORM 29% 52HCF A SIPROPELLANT ROCKET ENG	SAHWITH DISTRIBUTED ENERGY RELEASE /// // SPHP W D E R COMPUTER MODEL // IEHAFVISTO JULY 1972)	2) 01(60), JLISP 1(4), AT, LCHAM, DCHAM, CPMD2(11), C	/TEL/ IMR(18), TTC(18,3), TVIS(18,3), TNW(18,3), CST(12), TEPS(6), 1MACI TCXERP(18), XMRM /ESCCM/ EEC(5), IEB, PMF, PHO /5VV/ NP, NAP, NKR, SVV31(4), RHCLF, S' SVV33(24), TMFLF, TMFLO, XMRI, S'	/ELEM/ NEL, LSPEC(60), RADE(60), THETAE(60), ALFA(60 / ZELSPEC/ NLSPEC, NLSPEC, NLSPEC, NLSPEC, NLSPEC, DIAI(10), DIAZ(10), CDDI (10), NPROPI(13), NPROPI(13), SETA(10), GAMMA(16), GAMF(16), SPEL(10), DSARI(10), DSARZ(10), NDTI(10), NDTZ(10), SNCI(10), SNCI	#GF11(10), WGT12(10), WGT22(10), TWI(10), TWZ(10), AVZ(10), AVZ(10), XCW1C(10), XCM1C(10), XCM1C(10

159622	5	L15PC240	L1SP0440	•	L1SP0420	L1SPC500	L15P0520	L1SP0540	L1SP0600	LISPO610	LISP0620	LISPG630	L13P0724	L15P6726	LISPG727	LISP0726	9LISP0730	L15P0732	LISP0733	LISP0740	LISP0742	L15P0770	LISPO789	L1SP0620	LISP1000	LISP1020	LISP1022	LISP1024	L15P1026	VI 15P1020	1501031	ACC.:ETLISP1032	L1SP1034	7L1SP1035
562(10),	5061(10),	5062(10)		(00)	VZC (480)	(00)		and it has been designed by the property of the party of	W20,		WF(39,20), JSYM,	•	THETAR,	CKP2	SDNSA1,		STEN		2	LOJ										Ц		' -		PREPUESION LABORATORYZEISP
\$42 (10)+	\$651(10),	SC52(10),		C. 1, STVR1(Z1 (400), ST	00), STRW2(ende ende de melodore en la compace destante industrial destante en desta compace de la compace de l	KECKT, KCCRT, KTCRT, KFFCRT, W1F, W2F, W10, W2O,		RT(20), RC, WT(39	•	ZOM.	CKP1,	CNSAX2.		10), STENI,		•	KCRI, NCRI,					DATA	*		DESCRIPTION	\	/// M MANG	>: CHOCLAY	32.0	XP ///	SECONDAUVA I
Sel(10)+	5041(10),	SC42(16),		.CO), STW2(4	12 (400), STV	10), STPW1(4	460)	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	,KFFCRT, W1		, 119, RT (20	•	DTHETM,	DENS2,	UNSAX1.		C2,RHUG, EPS, IDEAR(10),	R, THEL,	WALL, NTHR.	(50), IPUN,			***************************************					24HANALYTICAL	CTERISTICS	NOTIFIED TO A STATE OF THE PARTY OF THE PART	TOTO XYO XX	INCED PREGRA	CCKWELL CORP	CACE ACCART
541(10),	5631(10),	\$632(10),	•	00), STH1(4	400), STVTH	00), TM1(40	(400), TM2((400)	KCCRT, KTCRT	XXMRI	MTH, THT (39),	•	DA AUM.	CENS1,	PX,	•	VISCI, VISC2, RHUG,	, SWEZ; THE	, NTHML, NR	AMAT(36), IRCRI(50), IPUN	FL, NRDAFP				CHTROLS AND	* * * * * * * * * * * * * * * * * * * *		7 43X 24HKN	PARY CHARA		יי און למ	41X 42HADVA	AMERICAN R	
10 3 d d		\$622(10),	لي), THETAM (4	0), STVTH1(0), STDU2(4	66), SIRDD2	001, SVTH2A	LCI/ KFCKT,	ELFF SZOFF	GN NSEC. N	STH (30)	31/	してはでして・	7		1237	163/		ISAVET	YOU.	marks.			1 7	*		!	، ۱		5	े ४	To a	· · · · · · · · · · · · · · · · · · ·
45/ 20x200	5011(10)	(5012(10))	CONMON	20 A R	, STV	\$ STO	8 ,STADD1(4	NIVS.	COMMON YOR	X W1196219	いっぱいしつ	(3e),	COMMEN LA	7.70	T KSNO	CASAC	ິບ	CCHANGN /L		1 NONDO		LOGICAL			11. (1		KPITE (C.	1.4.4.7.4	7 : 7 :	` * X X X X X X X X X X X X X X X X X X	< 0.1	3000	/ BKAG	And the second s

1L1SP103	00	159104	ISP104	\vdash	~ ;	-	$\overline{}$	\vdash	$\overline{}$	-	-	-	-	-	1-4	-	-	LISP1260	-	LISP1300	~	-	~;	~	L1SP1370	~	_	=	_	_	LISP1452		M L
ر ال مر ال مر اد ال)) () ()	11 22 12 11 12 12	# 25 20 10 10	IF (IEB.	0 READ(5,15)	231115457	O FPRNAT(SE12	(9181)1#Webs 5	THE CALL PARKETS A	WOLTS (0.00) ANAT	スケビ じょししんびがい	CALL TIME	9EAD(5,25) NEL, MRML, NTHML, NRHALL, NTHR, NIF	JSYM. NRSZER, NRBZEL, NLSPEC, RCRI,	a NO a H	IFINAMALL. LT. 1. CR. NRWALL. GT. NRML) NRWALL = NRM	EX. (1.12.87)		0%1% = T	OHLU-NIKO	THML-NT	PUNP.SE.IPUNL) IPUN =	TELL, SANYEL, NEWL, NIHME, NRWALL, NI	JSYM, JRBAFR, NREAFL, NLSPEC, N	, IPUNL, KFCRT, KOCRT, KTCRT,) H 1 20 C L	= TWHIN H5°7I = TREE H5°7I = TSERCX51	HA CALL HE WASTE HOUSE HE THAN HO SAL HE CHILDREN	I = ND41 H6.91 = 17.00 NCR1 = 14.94 IPUN = 1	277-17-17-17 14.91 [PIIV] = 14.91 NFCRT = 14.94 KOCKT =	THE PARTY IN TAILOR THE TAIL TAIL THE THE TAIL THE TAIL THE TAIL THE TAIL THE TAIL T	これが一名の名が一名の名が一名のから	ESH. CT.4(0

PNDER / LISP SUSPROGRAM BLCCK

LISP1500 LISP1526 LISP1540	SPS	LISP1700 LISP1702	LISP1710 LISP1712	LISP1722 LISP1724 LISP1740	LISP1750	LISP1810 LISP1814	LISP1620 LISP1830	LISP1840 LISP1642	LISP1850 LISP1860	LISPIE/O	LISP1890 LISP1900	LISP1920 LISP1930 LISP1940	LISP1950 LISP1960	LISP1970 LISP1980
1) 14585 = 14588+1 12(NCRI-15.0) GC TO 38 8640(5,25) (18CRI(1),I=1,NCRI) Walte (6,36) (18CRI(1),I=1,NCRI)	CRAAT (4X 7HIRCRI = 14,7I	READ(5,20) DZCM, DIHEIM, THETAR, ZOM,	ITE(0,40) DICM, DIRETM, THETAR, ZOK, ZOMZ, ZOM3 , COBAR SWATE CON PROS - FORTO S OF STREETM FIG. 3 PHITHETAND FIG.	1	= (3	ELENENT S STYOF = "FALSE	60 I=1,NLSP 0(5,25) NT	YT = WIYPE(I) F(NI-LE.3 .AND. IOSAR(I).EQ.O) LDIYPE = .	5(5,20) DI	EARI(I) = 0 $5AR2(I) = 0$	ITE(6,50) IFI(I), 0	FORMATI 4X STHELEMENT SPECIFICATIONS, GROUP NUMBER 14 4X7HNIYPE = 14,9H NPROPI= 14,9H NPROP2= 14,5H IUSAK /2X7HUIA1 = 1PE10,3,8H DIA2 = E10,3,EH CDDIA1= E10,	6H CDDIA2 = E10.3, 6H ZE = E10.3, 6H GANE 2X7h651A = E10.3, 8H GAMMA = E10.3)	VT.NE.3) 6

PROLE / LISP SUBPROCRAM ELGCK

LISP1990 LISP2000 LISP2010 LISP2020 LISP2040 LISP2060	1SP207 1SP208 1SP209 1SP210 1SP211	159215 159215 159215 159216 159216	1SP219 1SP220 1SP221 1SP222 1SP223	1SP235 1SP236 1SP237 1SP240 1SP240	15P24 15P24 15P24 15P24
ITE(6,12) GAMFAN(1), SPFAN(1), SPEL(1) PMAT(2A THGAMFAN= 1PE10.3, 8H SPFAN = 510.3, 4H SPEL = 610.3) L ZF(NI-LI-6 JAN: 165AR(1).60.0) GC TO 60 AD(5,20) DSAR1(1), DBAR2(1) ITE(6,50) DSAR1(1), DBAR2(1) RRAT(2X THBGAR1 = 1PE10.3, 8H DBAR2 = 610.3) IF(NI-NE.S) GO TO 60 AD(5,20)	scil(i), sc21(i), sc31(i), sc41(i), sc51(i), sc61(i) L ,sc12(i), sc22(i), sc22(i), sc42(i), sc62(i) L ,sa1(i), sc1(i), sc31(i), sc41(i), sc51(i), sc61(i) L ,sc11(i), sc21(i), sc31(i), sc41(i), sc51(i), sc62(i) L	SAI(I), SEI(I), SAZ(I), SBZ(I) CRMAT(2X7HSC11 = 1PE10.3, 8H SC21 = E10.3, 8H SC31 = E10.3 CH SC41 = E10.3, 8H SC51 = E10.3, 8H SC61 = E10.3 CX7HSC17 = F10.3, 6H SC22 = E10.3, 8H SC32 = E10.3 CX7HSC17 = F10.3, 6H SC52 = E10.3, 2H SC32 = E10.3	/2X7HS41 = E10.3, 6H S31 = E10.3, 6H S42 = E10.3 L • EH SE2 = E10.3) IF(4.*SC21(1).LT.SC11(1)**2) INERR = INERR*1 IF(4.*SC22(1).LT.SC12(1)**2) INERR = INERR*1 IF(4.*SC41(1).LT.SC31(1)**2) INERR = INERR*1 IF(4.*SC42(1).LT.SC32(1)**2) INERR = INERR*1	IF(4.mSC61(I).LT.SC51(I)**2) INERR = INERR+1 1F(4.*SC62(I).LT.SC52(I)**2) INERR = INERR+1 COTTINUT IF(LDTYPE .AND. JLISP.NE.2) INERR = INERR + I ELEMENT LCCATION	T(// 25% SCHELEMENT LOCATION AND ORIENTATION //) = (NTH8-1)*OTHETM + THETAR = (NTHL-1)*OTHETM + THETAR L=1,NEL
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PNDER / LISP, SUSPROCRAM SLOCK

S	L15P2480	SP249	24	SP24	L1SP2496	LISP2498	L1SP2500	LISP2510	L1SP2520	L1SP2530	LISP2532	LISP2540	L1SP2550	LISP2560	L1SP2700	LISP2710	L15P2712	LISP2720	LISP2720	L1SP2740	L1SP2750	L1SP2760	LISP2770	LISP2780	L1SP2790	LISPZEOO	L1SP2878	LISP2E60	LISP2900	L1SP2920	SP2	2	LISP2980	C.
READ(5.27) LSPEC(L), RADE(L), THE (AE(L), ALFA(L)	TOTAL FAILER NO. 13, 5X 7HISPEC # 13,	I DY SHTHFILE # PE.Z. DX	IF(LSPEC	FRITE(6,67)	INERR = INERR+1		CHENTER TO SANCE WITH THE	FETAE(L).GI.THFR .AND. THETAE(L).LI.	(6,66)	O FORMATION IND FLEM NUST BE	ATIEX WEHELEMONT SPECIFICATION NUMBER GREATE	新日 月 元	70 CCNT INCE		Ç)	IFINE OF TANE O . OR . KOCRT.NE.O . CR. KTCRT.NE.O . OR. KFFCRT.NE.O)	- H	IF(KCAT. 50.0) 60 TO 90	.3	ATT .		NIFF, WZFF		WIF = 1PF10.3,84 WZF = E10.3,84 WIC	C10.3,EH WIT = E10.3,EH W2T =	MIFF = 610.3.8H		٠ ٢ ٢	ETH. T. 360.01) INERK = INERR	09				

a a	LISP3010 LISP3012	SP	2	Sp	ISF	ISP	ISP	ISP	SP	ISP	ISP	ISP	ISP	ISP	ISP	ISP	ISP	ISP	ISP	ISP	ISP	S	SP	2	2	as a	7 0	dS	SP	SP	SP
				•	and the second s	JX•1))	JX,1))			ARTER AND ARTER				AND A CONTRACT OF THE CONTRACT										•		1	CH INJECTOR ELEMENT	AND THE RESERVE OF THE PARTY OF			
		+ SONSAI#(PIE-	- SONSAZ#(PIE-P	81 DL D9 (IK, XMRI, IMR, NMR, JX, FX)	+ FX#(TIG(JX+1,1)-T	+ FX# (IMM()X+1,1)-T	TAD I CAL	144/1545	Պայրաբառապարի համարդարգարացի համար բացիանաբացացարից արտ համար գտեղծ արագարարացի և որ բար միրում ձաձագացին, ձ.ա.ա. մ			H-NITHMI	ORACH CONTRACTOR			en commune description de la companyation de la com	JTH9TM		Zur.	SH, NIHML	•	HER 1/360.		11.		I FLOW RATES FOR EA	A CHARLES CONTRACTOR OF THE PROPERTY OF THE PR	7 51255		
60 12 850C	180 DPINJI = PMF-PIE	# 1	DNSATZ = DNSAXZ	IF(NOT LOTYPE JK = 0	CALL LLCFACIOK,	11	HM = TMM(JX+11)	*400300 = 0.093204	0.653204 =	CANDING AND PACES A CONTRACTOR AND	IRS RADIUS = C.	NIHI - NEWL-1	00 140 JI=1,NMES	REDIUS = REDIUS+DRA	US = UI+VIHI	00 190	190 940K(J) = 8401US	THETA - THETAR-D	DC 200 ITH=1,NTF	11.1	11=7	ETAN(3) =	FCISLE = (210 SWEL # FCIRLEATY	SWEZ = FOIRTERIX	CALCULATE PACEELLAN		3020	CALL DSIZE	

LISP3380 LISP3380 LISP3590 LISP3400	LISP3430 LISP3440	LISP3470 LISP3480	LISP3520 LISP3546 LISP3560	LISP3580 CHARACTERISTILISP3600 LISP3620	LISP3622 FLCW LB/S LISP3624 LISP3640	CCORDINATLISP3642 // LISP3660	L1SP3664 L1SP3690 L1SP3692	LISP LISP	LISP	L1SP3702 L1SP3704 L1SP3740
SOG NZOM = NZOM+1	CALL FANIN		M, NRCAFR, NRBA	ELEMENT SPRAY	X 9X 30HINJECTOR ' RADIAL AMGULAR 7X X X X DROF DIA AV DROP DIA / 9X	LANTI PREPELLANTE F	7200 FORMAT(113,F15,3,F13,3,4F13,5) TIF1 = 0.0 TIF2 = 0.0	20 L=1,NEL SPEC(L) (6,7200) (L,	FIFE = TIF1 + TW1(I) TIF2 = TIF2 + TW2(I) WAITE(5.7230) TIFI.	41(/19%,224 TOTAL I E(6,7300) AMAI, 20M

PMDFR / LISP SUDPPOGRAM SLOCK

MESH PUINT CHARACTERISTICS // LISP	WF FLUX TOT MASS RADIAL LISP SHPGINT PCSITION PUSITION LISP VELCCITY VELCCITY DIA IN LISP LISP LISP	3567 3568 357 357 356		, STRWI(J), STRWZ(J), STRDDI(J), LISP4065 STVZZ(J), J=J1,J2) LISP4060 LISP4090 PRUPELLANT I F12.5/30X,13H PRUPELLALISP4092	SP41 SP41 SP41 SP41	And the American Management of the Control of the C
SY STATE AZMOOMBUSTION	POSHPESH RADIAL ANGULAR ANT LEZINZZS /) RITE(M) NIHL,N F1 = 0.0	F2 = 6.0 C 7415 J1=NTH3, J2 = J1+NTHL-NTH DC 7410 J=J1,J2 RITE(6,7400) (J, N.SIV21(3),SIDC1	552(J)) FGSMAT(le,2F16.3, F10.2,F16.5/) TF1 = TF1 + TM1(J TF2 = TF2 + TM2(J	WRITE (M) (RADM(J), THETAM(J) CONTINUE NRITE(6,7540) TFI, TF2 FCRMAT(14X,29H TOTAL FLOWRATE, INT 2 F12.5)	WAITF(6,7550) AMAT, 20M FORMAT(1H1 19% 1834 / 20% 1834 / 60HCOMBUSTION 20ME MESH PCINT //3%66MFSH RADIAL ANGULAR PFRCENT / 3%	IMCS1 = 0. IMCS2 = 0. SMV1 = 0.

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PMBER / LISH SUBPREGRAM BLOCK

0 0 4 4 4 4 0	LISP425 LISP425 LISP425 LISP425 LISP425	4 m m m m m m m m	LISP432 LISP432 LISP432 LISP432 LISP433 LISP433 LISP433
0.00 0.00	FVAP2 = 0. IF(STRC(J).LT.1.E-12) GO T FVAP2 = (STW2(J)-STRW2(J)) TWCS2 = TMCS2+TM2(J) SMV2 = SMV2 + FVAP2*TM2(J) CONTINUE	X STRW2(3). STRD02(3). FVAP2 7560 F0GM4T(16.2F10.3.5X 1H1 F14.7. F10.5. 2PF11.2. X Z31X 1H2 OPF14.7. F10.5. 2PF11.2/) 7562 CONTINUE C	TIF1 = SWE2 JIF2 = SWE2 JAITE (N) TIF1,TIF2,SMV1,SMV2,2CM FND FILS M REWIND M REWIND M FVAP1 = SWV1/TMCS1 FVAP2 = SWV2/TMCS2 FVAP7 = (SWV1+SMV2)/(TMCS1+TMCS2) FVAP7 = (SWV1+SWV2)/(TMCS1+TMCS2) FVAP7 = (SWV1+SWV2)/(TMCS2) FVAP7 = (SWV1+SWV2)/(TMCS2)/(TMCS2) FVAP7 = (SWV1+SWV2)/(TMCS2)/(TMCS2)/(TMCS2)/(TMCS2)/(TMCS2) FVAP7 = (SWV1+SWV2)/(TMCS2

FNDER / LISP SUSPYDURAM SLUCK

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L1SP4260 L1SP43E0	- L	A L L L L L		
PUNCH LOUTACE CARD REMOVED HERE.	TO BOUG THETAM, NTHR, NTHL, NRWALL, RADM, HEL, THETAE, RADE, TO 7570 SPRAY RESH SYSTEM AND INJECTOR IMPINGEM , ANAT, SOH TO 5000	AR HR AR(II),STRWI(II),STEWZ(II),RADN(II),ZOM,IERR) 7600 FUEL AND OXIDIZER SPRAY LUKES AT CONST	PLOTC(AMAI) 1EB.GT.1) GG TO 8400 2 20M3 5 300	
Harrist Care to the State of th		1.00°.J.CT 1)*NTHNL+ HL-NTHX+1 72(NTH,TH 60.1) 60	245105 SECTIONS SPRAY FOR	C

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1000		EFLUOISO	100	L 001	1007	1201	LC01	1007	L002	1006	7007	1007	1007	1007	1007	1007	LC01	LC08	LC08	1.008	LGOB	L008	6007	1009	L009		6000	0107	1010	1010		בכום.		4
	A(60)	DUIA1	TAN.	OT2(10)	MO2(1	M2(10)	OWZR (R2(10)		ш	× 22		NAMESH.		: :			-	//.	,, ,			-		•		: ::::::::::::::::::::::::::::::::::::	-	,	* · · · · · · · · · · · · · · · · · · ·		? ·	:	~. [‡]
· · .	A E (50	1A2(10	X X X	011(10	MO1(10	M) (10)	CW18(1	R1(10	LFMUM	<u>\$</u>	¥		NITHL, MESH		- :	•	LN		,			-	` 21		a 4	(Tái				, , , , , , , , , , , , , , , , , , ,		-		
	E(60), THET	IA1		BAR2 (1	CT2(1	0722(1	DW2L (F)	AR2(1	22(10	THET	ENS2	T.	ALL				1007,005,00	_			•				1	COR LOURNAND	ss.			,				
	$\mathbf{v}_{\mathbf{k}}$		AME (I	BAK1(1	DIT()	0721(1	CW11(1	AR1(1	21120	∢ %	2. Lil	WE2, TH	THML, NR				0.5.00.4550.3.0		#2)	TÚ 303				ALTERNATION AND ADMINISTRATION OF THE PARTY	- ;	TARCE CE	/(A01(I)*DE	310	-	A THE LABOR CONTRACT OF THE PARTY OF THE PAR			. TO 350	
11 11 11	12 . U	(10)	E(10)	PEL (1	01)20		V02(1	1778	TE2 (1		PINJS	100							854*(DIA1(I	はいこま		25				0.000 % C 0.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	44.*WDT2(I)) • E3 • 1) 6	် ပ	WOTI(I)		KOII(I)	0.0 1.76.01 co	
SALIOUR BO	CARON VELO	() ()	PUIA2(10),	PFAN(10),	(1(10))	رِيا 11 (الرا) م	VEL(16)	AL1(10),	TH1(10),	GET/ NOSSO	PINJ1,	AUN NOWNO			0000 1) LdAlk =	001 31 3		01(1) = .7	F(Nbdbb1(I	SAUG I SAU	NIdo = La	0 TI 305	DNAC II SNA	Chick = Id		011(I) = 1) [dD&dW] d	7111(1) =	CT12(1) =	C 10 320	(1)(I) =	17171 = (11717)	
-		***	7	!-1	. 1	4.1	,so	•	ບູ		₽₹					-	-		300					305	,	1) () ()	-		-			0 1 10	200	3

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FL0114 FL0116 FL0118 FL0120	FL0124 FL0126 FL0128 FL0130	FL0132 FL0134 FL0136 FL0138 FL0138	FL0142 FL0144 FL0146 FL0146	FL0151 FL0151 FL0152 FL0156 FL0156	016 016 017 017 017
(11) = 0	rc 325 5 = CFNS1 = CPINJ1 2(1) = .6653*CDDIA2(1)*AD2(1)*SO	2(I) = 144.*WCT2(I)/(AC2(I)*CFN 4PRCP2(I).EG.1) GC TG 330 21(I) = 0.0 22(I) = WCT2(I) TC 80C	22(I) = WCT 22(I) = C•O 1C 800 21(I) = WCT	(1) = AC1(1) (1) = AC1(1) (2(1) = VC71(1) TC 80C (1) = 2.*.78 NPRCP1(1).55	1 CENS 1 CENS 1 CENS 1 CENS (1) = 1 (1) = 1 (2(1) = 1 (2(1) = 1

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PNDER / LISP SUSPRUCRAM BLCCK

20	2		2	0	EFL01940	EFL01960	EFL01960	EFL02000	EFLC2620		ď	O	9	.02	0	2	2	2	2	2	2		2	02	20.	o	8	9		-0244	.0246	0	C250	0252
1(1) = WOT1(1) $2(1) = C \cdot O$	CTYPE (1) .E.D. 4) G	0)*568L**2 = (1)	428CP2(1).EC.1) 60	S = DENS2	NI do II	10 425	SN37 = S	= CPIVJ	2(I) = .66834CCDIA2(I)*AC2(I)	2(1) = 144.*NOT2(I)/(AG2(I)*DENS)	4P3CP2(1).EQ.1) 60 TC 430	0.0 = (1)	22(1	10 860	21(1) = hD	22(1) = 0.0	الرئ مون	TU 321	(I) = 4.*.7854#(DIA	(1.53.(I) 1 dD 8d 1)	TO IN CHANGE	11	10 505	S = CENS	L'MIGG =	I(I) = .6683 * CLDIAI(I) * AOI(I)	1(1) = 144.4WDT1(1)/(AD1(1)*DEN	Vercel(I).Eq.1) 60 TO 510	0.0 m (I) II	12(1) = 80	[C 32]	II(I) = WC	12(1) = 6.0	TO 201

EFLG2546 EFLG2566 EFLG2580 EFLD2600 EFL02620	الدائد لم	EFLG2700 EFLD2720 EFLC2740 EFLC2760 EFLC2780	EFLG2620 EFLG2840 EFLG2860 EFLG2550 EFLG2900 EFLG2920	EFL02940 EFL02960 EFL02980 EFL03000 EFL03040	EFL03060 EFL03080 EFL03100 EFL03120 EFL03140	FL03 FL04 FL04
550 IF(NPRCP1(2).EG.1) GD TD 553 DENS = DENS2 CPl = DPINJ2 GO TO 555 553 DENS = DENS1	DPI = DPINJI 55 WDT1(I) = .6683*CDDIA1(I VC11(I) = 144.*NCT1(I)/(0 TC 56	60 10 576 570 IF(NP2CP2(1) - EQ.1) 60 TO 573 CFNS = DFNS2 DP2 = DPINJE 60 TO 575 573 DENS = DENS1); kn :	20 27 27 27 27 27 27 27 27 27 27 27 27 27	5

EFL04020	EFL04040	EFL04050	EFL04670	EFL04080	EFL04090	EFLC4100	EFLC4102 FF1 04110	EFL04112	EFL04114	EFL04120	EFL04124	EFLC4130	EFL04140	EFLC4150	EFL04160	EFL04170	EFL04172	EFL04174	EFL04176	EFL04180	EFL041e2	EFL04184	EFLC4186	EFL04166	EFL04190	EFL04200	EFL04210	EFLC4220	EFLC4230	FLC	1042	EFL04260
O. I=1,NLSPEC	×1(1) = %		0 920 [=1	= LSPEC(L	ALI = 1.		7 U	FACT = (THEL-THER)/360.	GC TO 910	F (THE . CT.	FACT # 0.	IFITHE CITHER I AND. I	CF1 = SEF1 + FACT*TW1(20 SEF2 = SEF2 + FACT	1 = SWE1/SEF1	2 = SWE2/SEF2	WFITE(6,924) R1, R2	CAMAT(398C ELEM	Fe.4)	11 1	-1 2/ 11	FINDS	17 S. H. W. W. H. W.	IF(TPPOPZ(I	105*Ia = (I)III0	CI21(I) = R1*W	1417 = (1) [5	104444 = (1) 1:0	OII (I) = 2A*VOI	H0T12(I) = R2*NGT12(I)	0122(1) = %2*%CT2	参いで リ (こ) - いま

6	MOT2 (I) = PE*MOT2 (I) 0 VCI2 (I) = -R8*VOT2 (I)	FLC427 FLC426	
	SETURN	2	1
	~	FL0999	
		Common Common or the property of the common	
	SACUTINE SCOEF (DENSI, DENS2)	CCEF0020	
1 4 1 1 1 1 1 1 1 1 1	/FLEN/ NEL, LSPECI	CEF010	ļ
	MAGN ZELSPEC/ NLSPEC,	CGEF0120	
	NTYPE(16), NPROPI(10),NPROPI(16),DIAI(10), DIAI(10), CODIAI(COEF0130	
	CODIA2(10),28(10), GAME(10), BETA(10), GAMMA(10), GAMFAN(• CDEF0140	
	SPFAM(10), SPEL(10), CBAR1(10), GBAR2(10), WOT1(10), MOTZ(10	COEF0150	
	191(10), 102(10), VOT1(10), VOT2(10), SWC1(10), SH02(10	COEF0160	- 1
To the same of the	WCT11(10), HUT12(10), WCT21(10), WCT22(10), TW1(10), TW2(10	CCEF0170	
	AVDI(10), AVU2(16), XCMIL(10), XCM2L(10), XCMIR(10),	COEF0180	
	5411(10), 5212(10), 5281(10), SAR2(10), VR1(10), VR2(10	CCEF0190	
	41(19), VTH2(19), VZ1(10), VZ2(10), ALFMGM(10)	COEF0200	
	CCMMCN /SHAPEC/ SAI(10), SBI(10), SA2(10), SB2(10)	CCEF6220	
	SC11(10), SC21(10), SC31(10), SC41(10), SC51(10), SC61(1	COEFOZSO	i
	12(15), SC22(10), SC32(10), SC42(10), SC52(10), SC62(CDEF0240	
ပ		CCEF0670	
	57.3 #ARSIN(SIND(COEFO680	
	*COSD(180GAM))) - GAM/2.	COEF0682	
	0 4000 I=14NLS	CCEF0740	
	0 = (I) MONET	CCEF0750	Ī
	$\Gamma = VIYPE(I)$	COEFG766	
	60 10 (2100,21	COEFO780	
210	DIAL = CIAL(I	CCEFOSOO	
	CIA2 = C142(1	CCEF0820	
	64ME = 64ME(I	COEF G840	
	UI = ACTI(I) * VOTI(I)	COEF0850	t
	C^*(I)	CCEFOBEO	
	LENCH(1) = ALF(WU1/4U2)	CGEFOE70	
	RITE(6,2101) 1LFMOM(1	CCEF0674	1
<u>.</u>	K211)1+20	CCEFO876	
		,	

COEF0940 COEF0960 COEF0980		COEF1080 COEF1100 COEF1120 COEF1200	トトト	F1	COEF1716 COEF1718 COEF1720	COEF1722 COEF1724 COEF1726 COEF1728 COEF1730	173	CUEF1746 COEF1752 COEF1780 COEF1800
15 (NPROP1(I) - XOFNSI = DENS GO TO 2105	F(NPROP2 F(NPROP2 PENS2 = 0	DENS2 = DE A1(I) = FS A2(I) = FS ALL FSB(I)	F(NTYPE(I).NE.2) GG TG 3000 C11(I) =0.0 C12(I) =0.0	SC51(I) = 0 SC52(I) = 0 CC TC = 0	C11(I) = 0 $C12(I) = 0$ $C21(I) = 0$	SC22(1) = 0.0 SC51(1) = 0.0 SC52(1) = 0.0 SC62(1) = 0.0 SC62(1) = 0.0	21(1) = 31. (31(1) = 2. (41(1) = 2. (2(1) = 11. (2(1) = 21.	0.52(1) = 0. 0.42(1) = 50. 0.10 = 0. 0.11(1) = 0.

	CDEF1820 CDEF1840	CDEF1860	COEF1900	COEF1920	COEF1940	COEF1950	CCEF1960	COEF1980	COEF2000	C0EF2020	CDEF2040	COEF2060	CCEF2080	COEF2160	COEF2120	COEF2140	COEF2160	COEF2180	C0EF2200	CDEF2220	C0EF2240	C0EF2260	CDEF2280	CUEF2300	CUEF 2320	COEF2340	C0EF2360	CCEF2380	CDEF2400	CDEF2420	CGEF2440	CCEF2460	CDEF2480	COEF2500
化多分子 经分分子 医多角性 医多角性 医多角性 医多角性 医多种性 医多种性 医多种性 医多种性 医二种种	1(1) = 0.	00	41 = DIA1	A2 = DIA2(1)	RI = WOTI(I)*VOTI(I)/(WOT2(I)*VOT2(I)	MCN(I) = ALF(WOT	NIYPE(1).EQ.5) 39 T	1 = FTDSA(XDIA1;	(I) = XSAI	1(1) = XS	2 = FTSSA(XDI41, XDIA2, XWVR1, XSC42)	(1) = XSA2	2(1) = XSC42	1 = FIUSE(XDIA1, XDIA2, XWVR1, XSC21)	(1) = xSB	1(1) = XSC	I(I) = XSC	2 = FTSSB	(1) = XSB2	S(I) = X	2(1) = XSC2	10 3000	2 = FPDSA	(I) = XSAI	I(I) = XSC4I	2 = FPSSA(XDIAI, XDIA2, XWVRI, XSC42)	(1) = XSA2	2(1) = XSC42	= (1)	1(1) = 5C41(1)	1(1) = SC41(1)	(I) = 542(I)	2(1) = 5	2(I) = SC
	SC31(\$6510	XDIAL	4	Œ	() ()	=	_	-	36411	N	_	7.2	XSEI	S51(1	\$621(SCE 11	X582	-	5622(SC621	-	500 XS42		_	N	<u>۔</u>	SC42(1112S	\$6210	5001	SE2 (1	SC22()Z92S

			TO THE SECOND SE					The section of the se				
50 TO 3000 2500 CONTINUE	CONTINUE	2900 CCNTINUE - 0 2162*HOT1/11/*CODI/CA1/11/*CE1/11/1/// + 6*CC21/11//CE1/CDE2040	11) + .5*SC41(1)*(1. + .5*SC61(1)/SE1(1))	3005 SW02(1) = 0.3183*W072(1)*SQRT(SA2(1)*SB2(1))/(1. + .5*SC22(1)/SB2(CDEF3000	11) + .5*SC42(1)*(1. + .5*SC62(1)/SB2(1))/SA2(11)	4000 CONTINUE COEF3200	: AITE(6,4100) (1,5011(1),5021(1),5031(1),5041(1),5051(1),5061(1), COEF3300	2 S42(1), S52(1), I=1,NLSPEC) COEF3320	4100 FORMAT(1H1 39X 31HSPRAY DISTRIBUTION COEFFICIENTS // 6X 10HSPEC DCDEF3330	191F ox 2HC1 9x 2HC2 9x 2HC3 9x 2HC4 9x 2HC5 9x 2HC6 9x 1HA 10x 1HBCDEF3340	2 // (19, 5x 1H1 8F11.3 / 14x 1H2 8F11.3 /)) COEF3350	CND

DSIZO20 DSIZO100 DSIZO120	CDDIA1(10), GAMFAN(10), WOT2(10),	. SW02(10); TW2(10);), XOW2R(10);	VRZ(10), DSIZO190 0) DSIZO200 DSIZO210	IDBAR(10), STENI, STENZ, DSIZOZZO DSIZOZZ DSIZOZ3O	05120240
SUBACUTINE DSIZE COMMON ZELENZ NEL, LSPEC(60), RADE(60), THETAE(60), ALFA(60) COMMON ZELSPECZ NLSPEC,	INTYPE(10), NPRCP1(10),NPRCP2(10),DIA1(10), DIA2(10), 2CODIA2(10), ZE(10), GAME(10), BETA(10), GAMMA(10), 3SPF4M(10), SPEL(10), DEAR1(10), DEAR1(10), DEAR2(10), WGT1(10),	ACE(16), VCT1(10), VCT1(10), AVD2(10), XGM1L(10),	0), SALZ(10), SARI(10), SARZ(10), 5), VTHZ(16), VZI(10), VZZ(10), 1 /LABI/ LABIDI(6), DENSI, DENSZ	ISCI, VISCZ, RHGG, EPS, PBAR	THE DESCRIPTION OF THE PROPERTY OF THE PROPERT

20	\$12028	2030	SI2032	SI2033	7 05120340	0512036	DS120370	.023DSIZ03E0	DS120390	7	DS120410	DSI20414	DS120420	05120430	DSI20440	DSI20450	05120460	DS120470	DSI204E0	DS120490	DS120560	DS120510	DS120520	DS120530	DS120540	05120550	DS120560	DS120570	CS120560	DS120590	DS120600	02120610	DS120620
7E(I) (I).NE.O)	[.GI.5] GO FU 1400	3 (1160,1150,1150,1250,	17 (ULAILI - 01 - ULAZIIII GU U 1120	07 • 0 * * * * * * * * * * * * * * * * * *	(01/VCT2(1)**C.57*D1A2(1)**C.65	*((JENS2*VOT2(I))/(DENS1*VOT1(I)))**0.25	60 TO 1130	AHH2 = 1.14/VGF2(I) ++0.76 + DIA2(I) + +0.293 + (DIA1(I)/LIA2(I)) ++	# ((DENSS#V	7/V0T1(^*[SN:0])*	SAM = 1.44-0.00733#CAMMA(I)	ART(I)=DIAHWI#(STENI/(DENSI#.	0.356 = 17.(DYNES/CM)/47.7(LBM/FT3)	BARD(I)=DIAHW2*(STENZ/IDENSZ*.	60 fg 1400	F (VDRCP1 (1) . EQ. 1)	NPROP1(I).EQ.2	アストに、アストは日のの事件の。いか	491(I) = 1.524/(2.64*SQRT(VOT1(I)/DIA1(I)) +	5.*(EPS-1.)/(EPS+3.)*4BS(480./EPS - V	F(NPROPI(1).N	EAR2(I) = DSAR1(60 TO 1400	E(NobCoz(I).E0.1) PR = VISC	F(:198092(1).EQ.2) PR = VISC2*	DE # (PE/RHCG) **C.25	EAR2(I) = 1.524/(2.64*SERT(VOT2(I)/DIA2(I)) + 0.215/C	[-Sd::)**:	0071 31 00	101 ##(I) IVI (I) #29 0 H (I) (I)	(T68*## (T) Z 10A)	= I.65*(DIA2(I)**.

1 (DIA1(I)**.555)		DS120630
11		CS120650
65 10 1270		DS120660
1270 05A91(I) = 1./(AJA*(1./0301) + ABD)		DS120670
1 #CDSAR		DS120672
DEAR2(I) = 1./(4JA*(1./0302) + ABD)		08120680
1 *CDSAR		DS120662
1400 CONTINUE		06907150
· ·		00120700
IF(NPROP2(I), EQ.1) 60 TO 1450		DS120720
AV01(1) = 08AX1(1)	· · · · · · · · · · · · · · · · · · ·	DS120730
AVD2(1) = DBAR2(1)		CS120740
Ö		05120750
1450 AV61(1) = 694R2(1)		DS120760
AVD2(I) = D9AK1(I)		DS120770
	**************************************	DS120800
The state of the s	Commission of the control of the con	01807150
PETURN		08662150
CZ		0566ZISQ

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FANIO130	FANIO140	FANIO150	FANIO160	FANIO170	FANIO180	FANIO190	FAN10200	FAN10220	FANIO718
CODIA1(10)	CAMFAN(10)	WDT2(10),	SW02(10),	TH2(10),	X0W2R(10),	VR2(10),		\$62(10)	
DIA2(10),				TH1(10),	XUWIR(16),	VR1(10),	ALFMOM(10)	SA2(10),	A COLOR OF A STATE OF THE PROPERTY OF A STATE OF THE STAT
1			1	_	X0W2L(10),	SAR2(10),	V22(10),	SB1(10),	The same transfer of the same
NPROP2 (10)	GAME(10),	DBAR1(10),	VOT1(10),	WCT21(10),	XCWIL(10),	SAR1(10),	V21(10),	SA1(10),	e des a granda de la capación de la
NPSCP1 (10),	, ZE(10),	SPEL(10),	AC2(10),	NCT12(10),	AVD2(10),	SAL2(10),	VIH2(10),		The second secon
INTYPE(10),	2000IA2(10),	SSPFAN(10),	4401(10),	5WCT11(10),	6AVD1(10),	78.4L1(10),	8VTH1(10),	COMMON /SHJ	
	DIA2(10),	DIAZ(10), CDDIA1(10), GAMMA(10), GAMFAN(10),	DIA2(10), GAMMA(10), WOTI(10),	DIAZ(10), GAMMA(10), WGT1(10), SWG1(10),	, NPROPI(10), NPROPZ(10), DIAI(10), DIAZ(10),), ZE(10), GAME(10), BETA(10), GAMMA(10), SPEL(10), DBARI(10), DBARZ(10), WOTI(10), NOTZ(10), NOTZ(10), NCTZZ(10), TWI(10), NCTZZ(10), TWI(10),	DIAZ(10), GAMMA(10), WDT1(10), SWD1(10), TW1(10),	DIAZ(10), GAMMA(10), WDT1(10), SWD1(10), TW1(10), XCW1R(16),	DIAZ(10), GAMMA(10), WOT1(10), SWO1(10), TW1(10), XCW1R(16), VR1(10), ALFMOM(10)	DIAZ(10), GAMMA(10), WOT1(10), TW1(10), XCW1R(10), VR1(10), ALFMOM(10)

FANIO720 FANI4900	FANI4926 FANI4940	FANITYSOU FANITA980 FANINO40 FANINO60	
		S NO INTERFERENCE BETWEEN	
3900 5381(1)=SA1(1)	S2R2(I)=SA2(I) SAL1(I)=SA1(I)	4000 CONTINUE C C * * DUMMY SUBROUTINE, PROVIDES NO INTERFERENCE BETWEEN SPRAY FANS.	RETURN

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MFLX0020	MFLX010G	MFLX0120	• MFLX0130	• MFLX0140	MFLX0150	MFLX016G	MFLX0170	MFL X0180	MFLX0190	MFLX0200	MFLX0220	MFLX0230	MFLX0240	MFLX0400	MFLX0410	MFLX0420	MFLX0440	MFLX0450	MFLXC480	MFLX0689	MFLX0690
	FA(60)	***	CDDIAL(10), MFLX0130	GAMFAN(10)	WDT2(10),	SW02(10),	TW2(10),	XCW2R(10)	VR2(10),		552(10),	SC61(10),	SC62(10)		400)	VZ2 (400)	400)			THETAR	CKP2
	RADE(60), THETAE(60), ALFA(60		DIA2(10),	GAMMA(10),	WOT1(10),	SWC1(10),	TW1(10),	XOW13(10),	VR1(10),	ALFMCM(10)	SA2(10),	3051(10),	\$652(10),		14M(400), STW1(400), STW2(460), STVR1(400	STVTH2(400), STVZ1(400), STVZ2(400)	301, STRW21	TRDD2(400), TM2(400)		ZOM.	CKP1,
	E(60), THE		DIA1(10),	BETA(10),	DBAR2(16),	VOT2(10),	WCT22(10),	XDW2L(10),	SAR2(10),	V22(10),	581(10),	SC41(10),	SC42(10),		0), STW2(40	(400), STV), STRW1(40	(00)		DTHETM,	DENS2,
	L, LSPEC(60), RAD		1(10), NPRCP2(10), DIA1(10)	GAME(10)	•	VOT1(10),	•	•		V21(10),	SA1(10),	•	SC32(10),		0) 1 STW1(40	CO), STVTH2	0), TM1(400	400), TM2(4	400)	DRADM.	DENS1,
MFLUX	M/ NEL, LSP	PEC NLSP	0. 0.5	(10	EL(10),	10),	T12(10),	02 (N	VTH2(10),	ו בכי	SC21(10),	5022(10),	EXT /	T), STVTHI(400),	-		0), SVTH2A(400)		PINJZ,
SUBROUTINE	DAMON /BLE	SIN NOWAL	TYPE(19),	DCIA2(10),	PEAN(1C),	1(10),	11(10),	10),	1(10),	TH1(10),	CHMCN /SHA	1(10),	12(10),	CHHON /LA	345M(400)	1STV42(400	STD21(400	1(40	*SV[H]A(40(DMMON /LAD	PINJI,
•	J	ں	Ï		S	44	ie ien	\$	7.	۲. ۲	U	-	5	ں ا	-	4)	-	a	O-	ن : :	<u>(1)</u>

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2.6NSAII. LOCICAL TENDY2 = 1 FEREA = D DENR31 = 0 DENR32 = 0 TMCS2 = 0 CAMMAX COMMAX C	MFLX0700 MFLX0710	MFLX071	MFLX0712 MFLX0720	MFLX0728	MFLX0730 MF1 X0732	MFL XG734	:MFLX0738	. MFLX0740	MFLX0760	MFLX0768	MFLX0770	MFLX0772	#F-X0780	MEL KOEOO	MFLX0820	MFLX0840	MFLX0860	MFLX0880	MFLX0900	MFLX0920	MFLX0940	MFLX0960	ST KANGO	MEI Y1020	MFLX1040	MF1 X 1060	MFLX1080	LX1	-	MFLX1100	~
	1, DNSAT2 /LAB3/ SWE1, SWE2, THER,	NAML, NTHML, NRWALL, NTHR, NTHL, MESH,			0.1 .AND. NIHL.EQ.NIHKL) IBNDYZ = . ADM#DTHFIM/57.2958	DENE 31 = (LENS) / DNS/T1) ##0.3333	DENR32 = (DENSZ/DNSAT2)**0.3333	TMCS1 = 0.0	INCS2 = 0.6	C II	DC 4000 I=1,NLSPEC	- AMAXI (CAMMAX, C	ACCURATE TO ACCUSATE OF U.S. A. V. N. C.				,,	п		13	O 1	0	14 1	,, ,		, 11	- Cachina - Cac	AN I AADM(U)			50 4500 L=1.NEL

HFLX1130 MF1 X1140	12	MFLX1190	J∷	{	LX:	1 X 1 2	X12	1 X 1 2	X	. ~	LXI	X	-	MFLX1254	MFL X 1 2 6 0	MF: X1262	HFLX1264	MFLX1266	~	1 0	MFLX1272	MFLX1274	MFLX1276	MFLX1278	_	MFLX 1290	MFLX1300	MFLX1310	HFLX1314	MFLX1320	MFLX1340	FLX136	COMINAL
LSP	RADE(L)	= 195 = 208	(X+Y+2) INJECTOR ELEMENT COORDINATES OF MESH POINT (CAL TO RECTANGULAR & ORIGIN TRANSLATION TO ELE	COSD(THM) - RE#COSD(ThE)	SIND(THM) - R	Y3 =	45CUT Y3	PHI = THE - 90. + ALFA(L)	SD(PHI)	ND (PHI)	IHdS+Z+ IHd	PHI + Y2*CPHI		4500T U2	USD(SETA(I))	IND(EETA(I))	SETA - U3*SBETA		3 € T A	ABOUT VI	MA(I) + ALFMOM(I) WAS SECURED AND A SECURE OF THE SECURE O	SO(ALF)	ND(ALF)		# VZ*CALF + V3*SALF	=-V2*SALF + V3*CALF	23T(Y1##2 + Y2##2 + Y3##2)	V) GG TC 4500	= vCT1(I) * 02 / 0	4TH = SOUT (AMAXI (VCT1(I) 2#2-VZ1(I) 4#2, 0.))		(ant-well)dictions—we

PAGE A - 62

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			£.			design of the free property of the state of				4.							-											-		
The second secon	1400	440	1460	210	520	700	720	0921	780	800	820	0 4 a	880	940	096	086	000	020	040	040 045	051	053	090	080	100	150	140	ر م درور	200	
	SFLX]	MFLX	MFLX	\rightarrow	MFLX	MFLX1	MFLX1	MFLX1	MFLX1	MFLXI	M M M M M M M M M M M M M M M M M M M	MFIXI	MFLX	MFLX1	MFLX1	MFLX1	MFLX2		ZFLX2											
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3		1,50								,			:	~	*\		3	1					:		Ī				<u>:</u>	
BLCCK				• •		-		:					i	+	*	ごキャ ブ	÷ (1 ± 1 1 1 7 0	∯ ¥				:							
SUBPROGRAM	•		3	**2, 0	,•			•	~	******					*X+SC	\ \ \ \	>	* * * * * * * * * * * * * * * * * * *	\							***************************************				
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PADER /		***************************************		2(1)*			Q			;				SC11	~ × *	* 1 4 7 7	7	くくい	Λ H	:		:	10 43			:				
ű.	×*2)	75	*C.	X1 (VC)	< ዺ.			l		:		1.)	1)	-	* 	し)。 なx		- · ·	1 () - ()				•21 6G	- -	(I)	: : : =	(8)	MVR Z	:1(1)	
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MCZU*VT SVTH2 + SVTH2 + SVTH2 + MC2U*V22 SV21 + MSV22 SV22 + MSV22	001 = 8001 + 40 001 = 8001 + 40 00 = 8002 + 40 100 = 8002 + 40 100 = 8002 + 60 100 = 8001 + 60 100 = 6001 + 60 100 = 6001 + 60	(4.55.1.) 65 15 4250 51J = wclu*(1.0 - A)**1.5 51J = u.baPl(1)*((9WClJ/WUlJ)**.35)*RWCl 41 = S9EL + RWClJ/WUlJ)**.35)*RWCl 51 = S9EL + RWClJ/WUlJ)**.35)*RWCl 41 = S9EL + RWClJ/WUlJ)**.35)*RWCl 41 = S9EL + RWClJ/WUlJ)**.25)*RWClJ/WClJ/WClJ/WClJ/WClJ/WClJ/WClJ/WClJ/	7 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

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	R2 = SVR2 + WVR	LX290
	THI = WC2J*VTHZ(I	N
:	THE WOLLSWITHI	X294
	THI = SVIHI + WVTH	LX296
	SVTH2 + WVT	XX
	1) 27 A&C 5 JA = 17	X300
	I) IZA*FIOM = ZZ	LX302
	2NM + IZNS = IZ	X304
:	ZVW + 25V2 = 55	7330e
	COVERNO NO N I II	LX308
	C NOLUMBEARE	LX310
	00x + 1000 = 10	LX312
	308 + 2005 H 37	LX314
ر،	FOR COIR IF PROP	LX315
	F(WOILS-LESV.) CO TO 435	LX316
	XP2*[2/(12.**V11(I	LX318
	# (**6E*1*) GC TO 4350	LX320
	4013 = WO13*(1.0 -	LX322
	10011 = 00041(I)*(I)*(I)	LX324
	CMS = Sows + CMCIJ	LX326
	COMB + ZUDES # SOUR	LX328
J	PSa *Z HISC GCH	LX329
4350	F(XOPU-LE-C.) CO TO	LX330
	= CKP1*52/(12**V22(I)*	LX332
	0204 01 09	MF1X3340
	- 1 0·1) 本でのうな II でいひる	LX336
))*(I) 2 a 7 S 7 =	LX338
	PKI = SOWI + RWOSJ	LX340
	9 + 1100s = 100s	LX342
0351	CHITAGE	LX344
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0.4	170	LX348
4500	ONLING	LX350
		LX351
ပ	400 T 00 I 6 V U	MFLX3512
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MFLX3520 MFLX3540 MFLX3550 MFLX3550	FLX356 FLX356 FLX3560 FLX360	K K K K K K K K K K K K K K K K K K K		MFLX3830 MFLX3640 MFLX3642 DAREA = 0.5*DAREA MFLX3850 MFLX3850 MFLX3850	LX 3930 LX 3930 LX 3930 LX 3933 LX 3933	
TKI(J) = SKI TKZ(J) = SWZ TF(SWI-EQ.O.) TF(SWZ-FQ.C.)	VTHIA(J) = SVTHI VTHIA(J) = SVTHI TVRI(J) = SVRIZWI TVRI(J) = SVRIZWI	; 11	TANI(J) = SAWI TOWZ(J) = SAWZ IF(SRWI.EC.C.) S IF(SRWZ.EQ.O.) S TRODI(J) = DEVR31 IFODZ(J) = DEVR32	54 = 340M(J) #64364 J.LE.NIHML)	12(1) = 51N2(1) *DARE 1CS1 = TMCS1+ TM1(J) 1CS2 = TMCS2 + TM2(J) E N P J D D	PCCNII = SWELZIMCSI ACONIZ = SWEZZIMCSZ CO 6100 UH I,NMESH STPWI(J) = PCCNII#STRWI(J)

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PROFIX / LISP SUUPPEGRAM ELOCK

MFLX4210 MFLX4213 MFLX4216 MFLX4216 MFLX4218	MFLX9990 MFLX9990 MFLX9990	=2, THER, THEL, HESH, NMESH	TRW1(4CC), STRK2(4GC) SVTH14(4GC), SVTH2A(4GC) AGE, 2 FOR REPEATING IMAGE F 3AFFLES ALCNG RIGHT (CW) A STEPS TA STEP RIGHT HAND (CW) BNDY	CF RADIAL
218M2 (U 817A1 (U) 8142 (U) 1M1 (U) 1M2 (U)		AMBA SWEI, SWE AMBA NT, 1 AMBA (439), 0), STVIMI(400),	+SIUCT (+SO) + SIECR (400) + S	L=FMSIA STRP LEFT HAND (CCV 10

BNDY0130 BNDY0140	BNDY0150 BNDY0158 ENDY0150	BNDY0170	BNDY0180 BNDY0188	BNDY0190	BNDY0200	BNDY0210	BNDY0220	BNDY0230	BNDY0240	BNDY0250	6NDY0258	BNDY0260	ENDY0262	BNDY0264	SNDY0270	BNDY0280	BNDY0290	6NDY0300	BNDY0310	BNDY0320	BNDY0330	8NDY0531	BNDY0332	BNDY0340	BNDY0350	BNDYO358	SNDY0360	BNDY0370	ENDY0380	BNDYO388	6NDY0390	
	BNDY					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1														•		BNOY				BNDY						
	(CM)																					T.				(CCM)	:					
	ятент																	The second secon				ENTS AT				LEFT (
	90												:		i							COMPONENTS				r.						
	CUTSIDE								1		•	*** **g**					-I I	+I.T				VELCCITY CO				CUTSIDE						
	FRCM	:	7 ON:													,	N=NTR+NTR-II	L-NTR	*			!	UT)			FRUE				ZONE		
JA, JE, NT	VALUES	200		+	J2 ,	,		=J A, J⊕	ي	50 TO 200				2 = N	×.×	I T2	1 1	III				- MEAN DRCP	YM, JIN, JOUT	IN, JOUT)		VALUES		300	TC 250	BAFFLE		
OC.AUT=JA.JE	FLUX	GO TO	1.11 GC	-10*NT	NIN-NIO		<u>.</u>	JouT=,	C)WWOS	SE.NRW) GO	SAFFI		•	11 (1:	N=11, N	IT=1,	W.LE.1	4.CT.1	J = (13-1)*NT	J+I IIN	TI+C	C LN3	SUNV (JSYM, JIN	SUMMEDIA: JO		FLOW		10	T.1) GO	2 AD	トラ	
O ń	: z.	LT-1)				717		140	ן הר	88 . GE	SIDE	PFQ+	0. Z	YM. GT.	of 06	190	(JSY!	(JSY		 	= 1n	JUST	CALL ST		!	? I	1127	1.1)	PBL.LT	KI W	2 E L *	
000	s /*. *	I W I I			ູດ	-		1	₹Į Ü	IF (NRB	ភ	N = 11	112 =	IF (JSY	00	0	H	<u>+</u>	7	5	07	AĐ	C	ربه	l	11 11 11	U E	IF (N.L	のなりしま	NNT	N = 20	
Ç		20 1							140	150						***								100			502					
•	33		. (:ر :						1	U		•			:						ני			J	C)		V		ر.		

BNDY0400 SNDY0410	6NDY0430 6NDY0440 8NDY0450 5NDY0458 ENDY0450	BNDY0470 6NDY0480 BNDY0482 BNDY0490 BNDY0500 6NDY0510	SNDY0511 6NDY0512 8NDY0513 3NDY0515 6NDY0516 6NDY0520	8NDY0530 8NDY0540 8NDY0542 8NDY0543 8NDY0544 eNDY0546	
(4 II	JB = JIN DD 240 CALL CALL OUTSIDE	11,NRW T=111=NT Le.1) IT	1 (1.37%.67.1) 11 J = (18-1)*N1 JIN = J+111N JCUT = J+11 ABJUSTHENT OF WE		DC 320 J=NTR,NTL K = N+J SIVP1(K) = 0. C ZERC CUT THETA COMPONENT OF DROP VELOCITY AT THETA BNDY. JSYM=1 C AND ALONG PAFILE IF JSYM=0 ORZ JZ = NT*NPW Kb = NT*(19RER-1)+NFR

BNDYC614 BNDY0620 BNDY0630 BNDY0640 BNEY0646	BNDY0650 BNDY0650 BNDY0666	BNDY0670 BNDY0680 BNDY0682 BNDY0690 BNDY0700 DCWN TO 1/2 DELTA AREABNDY0710	8NDY0730 BNDY0740 BNDY0750 FNDY0760 BNDY0762 BNDY0764	SNDY0768 BNDY0770 BNDY0760 BNDY0790 ENDY0600 BNDY0810	ECUNDARIES FCR DELTA AREASENDYO812 BNDYO813 BNDYO814 BNDYO816 ENDYO819	BNDY0820 BNDY0622 BNDY0630 BNDY0836
LS = NT*(NRSL-1)+NTL SC 340 J=1,J2,MI K = J+NTR-1 L = J+NTL-1 IF(JSYM,NE.1 .AND. K.GI.KB) GO TO 330	MD. L.GT.LB) GO TO	TVTHI(L) = G. IVTH2(L) = G. CNTINUE NTINUE ADJUST FLUX AT CHAMSER WALL TO COMPRESS	J1 = (NFW-1)*NT + NTE J2 = (NFW-1)*NT + NTE J1 = 1 IS = 1 FNW = 4.*NRW FW = 2.*FNW/(FNW - 1.)	576 JS=J1,J2,J1 1(JS) = STW1(J3)*F 2(JB) = STW2(JB)*F W1(JB) = STRW1(JB)* W2(JB) = STRW2(J3)*	AT CENTER & RADIAL	65 1F (

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BNDY0840 BNDY0850	BNDY0860 5NDY0870 BNDY0880 BNDY0882 BNDY0890 BNDY0896	BNDY0900 BNDY0910 BNDY0912 BNDY0920 BNDY0930 BNDY1200	-6NDY1210 SUMGOG10 SUMGOG14	A4(400)	x u	SUM00048 SUM00050 SUM00052 SUM00054
	NRW '2 (CCW) ENGY	5	SUMM(J,K) AB3/ SWE1, SWE2, THER, THEL,	NR, NT, X1(890) (400), VTI 400), A7(4	AJI = A3(J)/AI(J) AJ2 = AE(J)/A2(J) CALC E SAVE INITIAL VALUES OF TOTAL MASS MINUS VAP AT TRMIJ=A3(J)*44(J)/AI(J) TRMIK=A3(K)*A4(K)/AI(K) TRM2J=EE(J)*A5(J)/A2(J)	TRM2K=AE(K)*A5(K)/A2(K) TM1 & 2 MASS, ND VAP 3(J) = A3(J)+A3(K) 6(J) = A8(J)+A6(K)
# (J1 = NTL G0 TC 372 C 400 CGNTINUE C RETURN		1 CCRMCN / 1 VR1 (400) 2 * 45 (460) C CALC	AJI = AJ2 = CALC E CALC E TRM1U=A3 TRM1K=A3 TRM1K=A3 TRM2J=A8	TRM2K=A8 C TM1 6 A3(J) = A

SUMOCO60 SUMO0062	SUM00064 SUM00070 SUM00072	SUM00074 SUM00080 SUM00082	SUM00084 SUM00110 SUM00120	SUM00190 SUM00200	SUM00202 SUM00203	al e e	SUM00220 SUM00230 SUM00240	SUM00250 SUM00300 SUM00310	SUM00316 SUM00320 SUM00338	SUM00340 SUM00348 SUM00350 SUM00352
ผู้เก	2(J) = AB 57RM1 4(J) = (TF)	STRDD1	7(J) = (A7(J)*TRMZJ + A7(K)*TRM2K ETURN ND	USRCUTINE SUM2(NRE)	CCHMCN /LABS/ SW NR CCHMCN /LABML/ XI)), A6(400), A7(400), A8(400)	0 50 - -	= J+NTL A3(L) = F*(A3(L)+A A3(K) = A3(L)	8(L) = F#(8(K) = A8(1(L) = F*(1(K) = A1(L) 2(L) = F*(A2(L)+ 2(K) = A2(L)

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SUMCO354 SUMCO358	SUM00260 SUM0C366 SUM00370	SUM00380 SUM00390 SUM00500	SUM00505 SUM00510	SUM00590	SUM00600 SUM00601 SUM00602	\$015UM00603 \$015UM00604 \$UM00606	SUM00610 SUM00620 SUM00630	SUMO0640 SUMO0650 SUMO0660 SUMO0900
A7(L) = (A7(L)*A5(L)+A7(K)*A5(K))/(A5(L)+A5(K)) $A4(L) = F*(A4(L)+A4(K))$	44(K) = 44(L) 45(L) = F*(A5(L)+A5(K)) 45(K) = A5(L)	50 CCNINUE	RETURN END	SUBACUTINE	(JSYM,J,K) A63/ SWEI, SP NR, NI,	CCMMGN /LAEML/ X1(500), A1(400), A2(460), 1 VR1(460), VR2(400), VT1(400), VT2(400), XZ(1600),A3(400), A4(460)SUM00604 2 ,A5(400), A6(400), A7(400), A6(400)	-1. *V T1 (J)+	VT2(J) = (AZ(J)*VTZ(J)+S*AZ(K)*VTZ(K)) / (AZ(J)+AZ(K)) VR1(J) = (A1(J)*VR1(J)+A1(K)*VR1(K)) / (A1(J)+A1(K)) VR2(J) = (A2(J)*VR2(J)+A2(K)*VR2(K)) / (AZ(J)+A2(K)) RETURN END

PMDER / LISP SUBPREGRAM BLOCK

FTSA0010	0020 0030 0040	0050 0060 0070	0060 0090 0100	SA0110 SA0120 SA0130	SA0150 SA0160	0180	010	050	050	050	080	SB0100 SB0110	120	130 140	150
FTSA		3/ FTSA0050 3/ FTSA0060 •,7-5,6-FTSA0070	FT • 17 • 1 FT	FTSA FTSA FTSA	FTSA0150 FTSA0160 FTSA0120	FTSAO	FTSB0010		F1580040 FTS80050	0.,70.,	FTSE0080 FTSB0090	FISBO	FT580120	FISEO130	F1580
FUNCTION FTSSA(D1, D2, RMOM, C4)	C CALCULATES A AND C4 FOR CENTER ORIFICE OF TRIPLET ELEMENT C DIMENSION IM(11). TD(2). TA(11.2). TC4(11.2).	7.5,5.3,3.5,2	DATA TC4/40.,38.,34.,32.,28.,25.,22.,17.,15.,13.,12.,22.,20. X6.,14.,12.,10.,9.,8.,6.,6./	D = AMAXI(UI, .067) D = AMINI(0, .130)	CALL ITRP2(RMCM,TM,11,2,D,TD,2,2,TA,11,FTSSA) CALL ITRP2(RMCM,TM,11,2,D,TD,2,2,TC4,11,C4) RETURN	GN3	FUNC	C CALCULATES 3 AND C2 FOR CENTER ORIFICE OF TRIPLET ELEMENT	CIMENSION TH(11), TD(2), TS(11,2)	1.0,1.5,2.0,3.,4.,5.,6.,.067,. ,45.,23.,14.,10.,7.,5.,5.,130.,		b = 4M4X1(51,.067) $0 = 4MIN1(0,.130)$	CALL ITRP2(RMCN, TM, 11, 2, 0, TD, 2, 2, TB, 11, FTSSB)		
		The state of the s										A Mayor Commence of the Company of the Commence of the Commenc			

PNDFR / LISP SUBPROGRAM BLUCK

FTDA0010 FTDA0020	FTDA0040 FTDA0040 FTDA0050	TDA0060 TDA0070	TDAOORO	FIDAGGO	FIDADIIO	FIDADIZO	DA0130	DA0140	A0150		FT080010	FTD80020	FTD80030	F1060050	FT080060	80080	80090	FT080100	80110	2	DB0130	4 -
FTD/ FTD/ FTD/ FTD/ FTD/ FTD/ FTD/ FTD/		,8.,.043,.085/ FIDA	FTD	FTD		F101	FTDA	FTD	ACT		FTOE	FTD	TRIPLET ELEMENT FIDE		34.085/	• • • • • • • • • • • • • • • • • • • •	FTDE	FTOE	FTOE	FTDB	FTDBOI	- -
,C4)	Judge unitie un	6,0.8,1.0,2.0,3.,4.,6.	3.2/			.TD. 2.2.TA.11.FTDSA)					1,62)		DOUBLE CRIFICE OF	[8(11,2)] The state of the stat	*0.8*1.0*2.0	7-1100-100-130-123-11 7-10-17-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-				,TD,2,2,TB,11,FTDSE)		THE PROPERTY OF THE PROPERTY O
FUNCTION FIDSA(D1, D2, RMGM,	OFFICE A FAD CT FOR TYPE 4 ELEMENT DIMENSION TW(11); TD(2); T	TA TM, TD/U.3, 0.4,0.5,0.	5.3,4.8,4.0,3.7,3.5,3.3,		H AMENICAL COM	IT822 (RMCM.IM.11.2.0		TURN	0	* egen	FUNCTION FIDSB(01,02,RMOM,		CALGULATES B AND CZ FOR	MENSION TM(11), TD(2),	DAIA IM, ID/0.3,0.4,0.5,0.6,0.6			= AMAX1(D1, 043)	= AMINI(D, 085)	ITRP2(RMCM, TM, 11,2,0	C2 = C.C.	

FPSSA(A,B,C,D) FSA (D1,C2, GAM,DEN, C4) TES A E K4 FOR LIKE AND UNLIKE DDUBLETS 162 ELENENTS (7, C20, O40, C52, O79, 50, 60, 70, 70, 70, 70, 70, 70, 70, 70, 70, 7	END FUNCTION FPSSA(A,5,C,D) PETURN END CALCULATES A E K4 FOR LIKE AND UNITKE DOUBLETS CALCULATES A E K4 FOR LIKE AND UNITKE DOUBLETS TYPE 162 ELEMENTS CINENSION TO(4), TG(3), TA(4,3), TRO10), TRD1(9), TRA110), X TRC4(9) CATA TA/ 22.,14.1,11.2,9., 14.2,9.3,7.4,6.8, 11.2,6.3,5.4,5.8/ CATA TA/ 22.,14.1,11.2,9., 14.2,9.3,7.4,6.8, 11.2,6.3,5.4,5.8/ CATA TA/ 22.,14.1,11.2,9., 14.2,9.3,7.4,6.8, 11.2,6.3,5.4,5.8/ CATA TA/ 22.,14.1,11.2,9., 14.2,9.3,7.4,6.8,11.6,1.16,1.16,1.2,7.2/ CATA TRUL 1.0, 1.3,1.3,1.6,1.3,1.4,1.6,1.6,1.8,2.0,1.0.7/ DATA TRUL 1.0,1.36.1.55,1.68,1.78,1.94,2.12,2.28,8.27/ CAL TYC4/ 1.0,1.36.1.55,1.68,1.78,1.94,2.12,2.28,8.27/ CAL TYPE (CAM,40.) G = AMINIGIA,0.10 FSA = FSA # (DEN/62.4)**0.21 CA = FSA RES = CANYOF (RD,TR),TRA,10,2)	NUR &	FUNCTION FPDSA(A, E, C, D) RETURN	00000100	
FUNCTION FPSSA(A,5,C,D) PENDER END CALCOLATES A E K4 FOR LIKE AND UNLIKE DDUBLETS TYPE IR2 ELEMENTS FUNCTION TO 4, TG(3) TA(4,3), TRO(10), TRD1(9), TRA(10), X TRC4(9) DATA TA/ 22.14.111.27.0.14.29.37.44.68, 11.2.6.3.5.4.5.8/ DATA TA/ 22.14.111.27.0.14.29.37.44.68, 11.2.6.3.5.4.5.8/ DATA TRU/ 0.1,0.6.0.3.1.6.1.29.1.4.1.6.1.8.2.0.10./ DATA TRU/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ DATA TRU/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ DATA TRU/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ DATA TRU/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ DATA TRU/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ CAL ITXPZ(D,TD,4,2, G,TG,3,2, TA,4, FSA) ESA # (DEN/62.4)**0.21 CA = FSA RD = DZ/D1 IF(RD,F0.1) GO TO 100 IF(RD,F0.1) GO TO 100.2	FUNCTION FPSSA(A, B, C, D) PETURN END FUNCTION FSA (D1, C2, GAM, DEN, C4) FUNCTION FSA (D1, C2, GAM, DEN, C4) CALCULATES A E K4 FOR LIKE AND UNLIKE DOUBLETS TYPE IG. ELENNIS CATA TS, C20, 040, C52, 079, 50, 60, 70, 70, 70, 71, 71, 10, 11, 11, 11, 12, 14, 16, 11, 12, 13, 14, 16, 11, 12, 13, 14, 16, 11, 12, 10, 11, 12, 10, 11, 11, 11, 11, 11, 11, 11, 11, 11	END		00000120	
END FUNCTION FSA (U1, U2, GAM, DEN, C4) CALCULATES A E K4 FOR LIKE AND UNLIKE DOUBLETS TYPE IS ELEMENTS; DIMENSIGN TD(4), TG(3), TA(4,3), TRO(10), TRD1(9), TRA(10), X TRC4(9) DATA TA/ 22.144.1,11.2,9.1.14.2,9.3,7.4,6.8,11.2,6.3,5.4,5.8/ DATA TRA / 0.1,0.6,0.3.1.6,1.2, 1.3,1.4,1.6,1.8,1.2,1.25/ DATA TRA / 0.8,.85,.90,1.0,1.09, 1.14,1.16,1.18,1.2,1.25/ DATA TRA / 0.1,38.1.55,1.68,1.78,1.94,2.12,2.28,8.27/ G = AMINIGAN,40.) G = AMINIGAN,40.)	END FUNCTION FSA (DI, D2, GAM, DEN, C4) CALCOLATES A E K4 FOR LIKE AND UNLIKE DOUBLETS TYPE IS ELEMENTS TYPE IS ELEMENTS TYPE IS ELEMENTS TYPE IS ELEMENTS DATA TA 22.14-11,11.2,9.14-2.15-4,6.8,11.2,6.3,5.4,5.8/ DATA TA 22.14-11,11.2,9.14-2.11-4,1.6,1.8,1.10-7/ DATA TAD 7 0.10-6,0.3 1.6,1.2,1.14,1.16,1.18,1.2,1.25/ DATA TROL 1.0,1.3 1.1.2,1.3 1.4,1.6,1.8,2.0,1.0.7/ DATA TROL 1.0,1.3 1.1.2,1.3 1.4,1.6,1.8,2.0,1.0.7/ DATA TROL 1.0,1.3 1.1.2,1.3 1.4,1.6,1.8,2.0,1.0.7/ DATA TROL 1.0,1.3 1.5,1.6 8,1.78,1.94,2.12,2.28,8.27/ CALL ITRA 2017 1.0,1.3 1.2 1.3 1.4,4.7 5.A) ESA = FSA * (DEN/62.4)**0.21 CALL ITRA 2017 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	FUN FER	20	00000130	
EUNCTION FSA (D1, C2, GAM, DEN, C4) CALCULATES A E K4 FOR LIKE AND UNLIKE DOUBLETS TYPE IR2 ELEMENTS EIMENSIGN TD(4), TG(3); TA(4,3), TRO(10), TRD1(9), TRA(10), X TRC4(9) DATA TA/ 22.,14.1,11.2,9., 14.2,9.3,7.4,6.8, 11.2,6.3,5.4,5.8/ DATA TRA / 0.8, 85.90,1.0,1.0,9, 1.14,1.6,1.8,2.0,10./ DATA TRA / 0.8, 85.90,1.0,1.0,1.8,1.94,2.12,2.28,8.27/ DATA TRC4/ 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ E AMINIGD1,0.10 CALL ITREIGN 40.) G = AMINIG,80.) CAL TRAZ(GAM,40.) G = AMINIG,80.) CAL TRAZ(GAM,40.) G = AMINIG,80.) CA = FSA ROM/62.4)**0.21 CA = FSA ROM/62.4)**0.21 FSA = FSA * (DEN/62.4)**0.21	FUNCTION FSA (D1, C2, GAM, DEN, C4) CALCULATES A E K4 FOR LIKE AND UNLIKE DOUBLETS TYPE 162 ELENENTS DIMENSION TD (4), TG(3), TA (4,3), TRO(10), TRD1(9), TRA(10), X TRC4(9) DATA TD, TG/ .020, 040, C52, C79, 50, 60, 70, 70, 70, 70, 70, 70, 70, 70, 70, 7	GNG		00000150	
CALCULATES A E K4 FOR LIKE AND UNLIKE DOUBLETS TYPE IR2 ELENENTS DINENSIGN TD(4), TG(3), TA(4,3), TRO(10), TRD1(9), TRA(10), X TRC4(9) CATA TD,TC/ .C20, 040, C52, 079, 50, 60, 70, 70, 70, 70, 70, 70, 70, 70, 70, 7	EUNCTION FSA (D1, C2, GAM, DEN, C4) CALCULATES A E K4 FOR LIKE AND UNLIKE DOUBLETS LYPE 162 ELEMENTS CIMENSION TO (4), TG(3), TA (4,3), TRO (1G), TRD (1G), TRA (10), X TRC 4(9) DATA TA / 22.14-111-2.9., 14.2.9.3.7.4.6.8, 11.2.6.3.5.4.5.8/ DATA TA / 22.14-111-2.9., 14.2.9.3.7.4.6.8, 11.2.6.3.5.4.5.8/ DATA TA / 02.10-111-2.9., 14.2.9.3.7.4.6.8, 10.1.6.1.6.1.6.1.6.1.2.1.2.1.2. DATA TRU / 0.1,0.6.0.8.1.0.1.0.9, 11.4/11.6.1.18.1.2.1.2.1.2. DATA TRU / 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10.7 DATA TRU / 1.0, 1.38.1.55,1.68,1.78,1.94,2.12.2.28,8.27/ CALL ITRD 2(D, D3, 4,2, G, TG, 3,2, TA, 4, FSA) ESA = FSA * (DEN/62.4)**0.21 CA = FSA RD = D2/D1 IFRED FG. 1.0 TD 100 ESA = FSA PYCF(RD, TRD, TRA, 10, 2)	\$:			***
CALCULATES A E K4 FOR LIKE AND UNLIKE DOUBLETS TYPE IR. ELEMENTS EIMENSION TD(4), TG(3), TA(4,3), TRD(10), TRD1(9), TRA(10), X TRC4(9) CATA T3, TG,	CALCULATES A E K4 FOR LIKE AND UNLIKE DUBLETS TYPE IR2 ELEMENTS (TYPE IR2 (9) TRA(10), TG(3), TA(4,3), TRO(10), TRD1(9), TRA(10), TYPE IR2 (0.20,.040,.C52,.679,50.,60.,70./ TYPE IR2 (0.1,0.6,0.3,1.2), 14.2,9.3,74,6.3,11.2,1.25/ DATA TRA (0.1,0.6,0.3,1.2), 14.1,6,1.6,1.8,2.0,10./ DATA TRD (1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ DATA TRD (1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ DATA TRD (1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ DATA TRD (1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ DATA TRD (1.0, 1.3, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ E AMINI(D1,0.10) CALL ITRP (10,10.) G = AMINI(G,30.) CALL ITRP (10,10.) ESA = FSA (DEN/62.4)**0.21 CALL TRD (20.10) ESA = FSA (DEN/62.4)**0.21 THE RD (20.10) ESA = FSA (DEN/62.4)**0.21		FSA (D1, D2, GAM,	FSA00010 FSA00020	
DATA TD, TG (4), TG (3), TA (4,3), TR O (10), TR D (9), TR A (10), X TR C4 (9) X TR C4 (9) DATA TD, TG (-029, 040, 052, 079, 50, 60, 70, 70, 70, 712, 72, 14-1, 11-2, 93, 74, 6-8, 11-2, 6-3, 5-4, 5-8/ DATA TRA (0.1,0.6,0.31.0,1.2, 1.4,1.6,1.6,1.8,2.0,10.7/ DATA TRA (0.1,0.6,0.31.0,1.3), 1.4,1.6,1.8,2.0,10.7/ DATA TRD (100,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ E = AMINIG 10.10.10 G = AMINIG 10.10.10 G = AMINIG 10.4,2, G, TG, 3,2, TA,4, FSA) FSA = FSA * (DEN/62.4)**0.21 C = FSA RD = D2/D1 IFRD = G0.1.) GO TO 100 IFRD = G0.1.) GO TO 100.	TYPE 1E2 ELEMENTS * ITYPE 1E3 ELEMENTS * ITTYPE 1E3 ELEMENTS * ITYPE 1E3 ELEMENTS * ITTYPE 1E3 ELEM	of the state of th	A E K4 FOR LIKE AND UNLIKE	FSA00030	
X TRC4(9) DATA TD,TG/.020,.040,.052,.079, 50,,60,,70,/ DATA TA/ 22.,14.1,11.2,9., 14.2,9.3,7.4,6.8, 11.2,6.3,5.4,5.8/ DATA TRU / 0.1,0.6,0.8,1.0,1.2, 1.4,1.6,1.6,1.8,2.0,10./ DATA TRU / 0.8,.85,.90,1.0,1.09, 1.14,1.16,1.18,1.2,1.25/ DATA TRU / 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ DATA TRU / 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ DATA TRU / 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ CALL ITRD 2(D,T0.10) G = AMINIGH,0.10) G = AMINIGH,0.10 FSA = FSA * (DEN/62.4)**0.21 G = FSA RD = D2/D1 IF(RD,F0.1.) GD TD 100 ESA = FSA*YCF(RD,TPD,TRA,10.2)	X TRC4(9) DATA TD,TG/.029,.040,.052,.079, 50.,60.,70./ DATA TA/ 22.,14.1,11.2,9., 14.2,9.3,7.4,6.8, 11.2,5.3,5.4,5.8/ DATA TRU / 0.1,0.6,0.8,1.6,1.2, 1.4,1.6,1.8,2.0,10./ DATA TRU / 0.1,0.6,0.8,1.6,1.0,1.16,1.16,1.2,1.2,1.2,1.2,1.2,1.2,1.2,1.2,1.2,1.2	<u>.</u>	162 ELEMENTS (* TAKE.3), 180(16), TRD1(9),	FSA00040 FSA00050	er sam þ
DATA TD,TG/ .020,.040,.052,.079, 50.,60,,70./ 0414 TA/ 22.,14-1,11.2,9., 14-2,9.3,7-4,6.8, 11.2,5.3,5.4,5.8/ DATA TRL / 0.1,0.6,0.8,1.0,1.2, 1.4,1.6,1.6,1.6,2.0.10./ DATA TRA / 0.8,.85,.90,1.0,1.09, 1.14,1.16,1.18,1.2,1.25/ DATA TRDI/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ DATA TRDI/ 1.0, 1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ CALL ITRDI(GAM,40.) G = AMINI(G10,0.0) G = AMINI(G,80.) CALL ITRDI(GAM,40.) G = AMINI(G,80.) CALL ITRDI(GAM,40.) FSA = FSA * (DEN/62.4)**0.21 CC = FSA RD = D2/D1 IF(RD.F0.1.) GO TO 100 FSA = FSA*YCF(RD.TP.).78%,10.2)	DATA TD, TG/ .020, .040, .052, .079, 50.,60.,70./ 0414 TA/ 22.,14.1,11.2,9., 14.2,9.3,7.4,6.8, 11.2,6.3,5.4,5.8/ DATA TRU / 0.1,0.6,0.8,1.0,1.2, 1.4,1.6,1.6,1.8,2.0,10./ DATA TRA / 0.8,.85,.90,1.0,1.0,9, 1.14,1.16,11.18,1.2,1.25/ DATA TRDI/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ DATA TRC4/ 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ CALL ITXP2(D, ID, 4,2, 6, FG, 3,2, TA,4, FSA) ESA = FSA * (DEN/62.4)**0.21 C4 = FSA AD = D2/D1 IF(RD. E0.1.) GQ TG 100 FSA = FSA * YCF(RD, TRD, TR3, 10,2)	C X		F \$ \$ 00060	The state of the s
T9.16/ .020040052079. 500.600.10./ TA/ 22.,14.1,11.2,9., 14.2,9.3,7.4,6.8, 11.2,5.3,5.4,5.8/ TRC / 0.1,0.6,0.8,1.6,1.2, 1.4,1.6,1.8,2.0,10./ TRA / 0.8,.85,.90,1.0,1.09, 1.14,1.6,1.8,2.0,10./ TRDI/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8,2.0,10./ TRC / 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ MMINI(D1,0.10) MMINI(G,80.) HTXP2(D,10,4,2, G,16,3,2, Ta,4, FSA) FSA * (DEN/62.4)**0.21 FSA * (DEN/62.4)**0.21 FSA * (DEN/62.4)**0.21	TD.IG/ .C23040,.C52,.079, 50.,60.,10./ TA/ 22.,14.1,11.2,9., 14.2,9.3,7.4,6.8, 11.2,6.3,5.4,5.8/ TRL / 0.1,0.6,0.8,1.C,1.2, 1.4,1.6,1.6,1.6,1.2,1.25/ TRA / 0.6,.85,.90,1.0,1.09, 1.14,1.16,1.18,1.2,1.25/ TRDI/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ TRC4/ 1.0,1.36,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ MINI(D1,0.10) MINI(G1,0.10) MINI(G,30.) ITRDZ(D,ID,4,2, G,IC,3,2, TA,4, FSA) FSA * (JEN/62.4)**0.21 FSA D2/D1 D2/D1 SA D2/D1 FSA C2/D1 FSA C2/D1 FSA C2/D1 FSA C2/D1 FSA C2/D1 FSA FSA C2/D1 FSA C2/D1 FSA FSA C2/D1 FSA FSA FSA FSA FSA FSA FSA FS			FSA00070	
TRU / 0.1,0.6,0.8,1.C,1.2, 1.4,1.6,1.6,2.0,10./ TRU / 0.1,0.6,0.8,1.C,1.2, 1.4,1.6,1.6,2.0,10./ TRU / 0.8,.85,.90,1.0,1.09, 1.4,1.6,1.8,2.0,10./ TRU / 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ TRU / 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ TRU / 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ TRU / (GAM, 40.) MINI (GAM, 40.) MINI (G, 80.) FSA * (DEN / 62.4) ** 0.21 FSA D2/D1 FSA D2/D1 FSA PCF (RD, IRD, IR3, 10,2)	TRD / 0.1,0.6,0.8,1.6,1.2, 1.4,1.6,1.8,2.0,10./ TRD / 0.1,0.6,0.8,1.6,1.2, 1.4,1.6,1.8,2.0,10./ TRD / 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ TRC / 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ TRC / 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ MINI(D1,0.10) MINI(GAM,40.) MINI(G,80.) ITRD Z(D,10,4,2, G,FG,3,2, TA,4, FSA) FSA * (DEN/62.4)**0.21 FSA * (DEN/62.4)**0.21 FSA * (DEN/62.4)**0.21 FSA * (DEN/62.4)**0.21 FSA * (DEN/62.4)**0.21	140	10,167 .020,.040,.052,.079, 50.,60.,10.7	FAMODEO	
TRD1/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10.7 TRC1/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10.7 TRC4/ 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ MIN1(D1,0.1G) MIN1(G1,0.1G) MIN1(G,30.) ITRD2(D,ID,4,2, G,IG,3,2, TA,4, FSA) FSA * (DEN/62.4)**0.21 FSA D2/D1 D2/D1 FSA*YCF(RD,TRD,TRA,10.2)	TRDI/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10.7 TRDI/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10.7 TRC4/ 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ MINI(D1,0.10) MINI(D1,0.10) MINI(G,80.) ITRPZ(D,ID,4,2, G,IG,3,2, TA,4, FSA) FSA * (DEN/62.4)**0.21 FSA * (DEN/62.4)**0.21 O2/D1 D2/D1 FSA* D2/D1 FSA* D2/D1 FSA* D2/D1 FSA* D2/D1	1 40 2 C	IRC / 0.1.0.6.0.8.1.0.1.2. 14.2.7.5.1.4.40.0.7 11.2.7.0.2.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7	FSA00100	
TRD1/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10./ TRC4/ 1.0,1.36,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ TRC4/ 1.0,1.36,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ MINI(D1,0.10) HINXI(GAM,40.) HINXI(GAM,40.) HINXI(GAM,40.) HINXI(GAM,40.) FSA * (DEN/62.4)**0.21 FSA D2/D1 FSA D2/D1 FSA PYCE(RD,TED,TES,10.2)	TRD1/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10.7 TRC4/ 1.0,1.36,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ TRC4/ 1.0,1.36,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ MINI(D1,0.1G)	CAT	TRA / 0.8, 85, 90,1.0,1.09, 1.14,1.16,1.18,1.2,1.2	FSA00110	
TXC4/ 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ MINI(D1,0.1C) MINXI(GAM,40.) MINI(G,80.) MINI(G,80.) ITRPZ(D, ID,4,2, G, IG,3,2, TA,4, FSA) FSA * (DEN/62.4)**0.21 FSA D2/D1 C2/D1 C5/A*YCF(RD, IPD, IP3.10.2)	TXC4/ 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.27/ WINI(D1,0.10) WINXI(GAM,40.) WINI(G,30.) ITRP2(D,ID,4,2, G,IG,3,2, TA,4, FSA) FSA * (DEN/62.4)**0.21 FSA D2/D1 O2/D1 FSA	521	TRUI/ 1.0, 1.1, 1.2, 1.3, 1.4, 1.6, 1.8, 2.0, 10	FSAC0120	
AMINI(D1,0.10) ANAXI(GAM,40.) AMINI(G,80.) L ITRD2(D,ID,4,2, G,IG,3,2, TA,4, FSA) = FSA * (DEN/62.4)**0.21 = FSA = D2/D1 SD.F0.1.) GO TO 100 SD.F0.1.) GO TO 100	AMINI(D1,0.10) AMAXI(GAM,40.) AMINI(G,80.) L ITRP2(D,10,4,2, G,1G,3,2, TA,4, FSA) = FSA * (DEN/62.4)**0.21 = FSA = D2/D1 SD.F0.1.) GO TO 100 SD.F0.1.) GO TO 100 = FSA*YCF(RD,TRD,TR3,10,2)	. ממ י	TRC4/ 1.0,1.38,1.55,1.68,1.78,1.94,2.12,2.28,8.	FSA00140	
AMINI(GAM,40.) AMINI(G,80.) L ITRP2(D, ID,4,2, G, IG,3,2, TA,4, FSA) = FSA * (DEN/62.4)**0.21 = FSA = D2/D1 RD.F0.1.) GD TD 100 RD.F0.1.) GD TP 10.2)	AMINI(G,80.) L ITRP2(D, ID,4,2, G, IG,3,2, TA,4, FSA) = FSA * (DEN/62.4)**0.21 = FSA = D2/D1 RD.F0.1.) GD TD 100 RD.F0.1.) GD TD 100	ì	1	FSA00150	
AMINI(G,80.) L ITRP2(D, ID, 4,2, G, IG, 3,2, TA,4, FSA) = FSA * (DEN/62.4)**0.21 = FSA = D2/D1 RD.F0.1.) GD TD 100 RFSA*YCF(RD.TR9.10.2)	AMINI(G,80.) L ITRP2(D, ID,4,2, G, IG,3,2, TA,4, FSA) = FSA * (DEN/62.4)**0.21 = FSA = D2/D1 RD. FQ.1.) GO TO 100 RD. FQ.1.) GO TO 100 RESA*YCE (RD, IRD, IRS, 10,2)			FSA00160	
L ITRP2(D, ID, 4,2, G, IG, 3,2, TA,4, FSA) = FSA * (DEN/62.4)**0.21 = FSA = D2/D1 SD.F0.1.) G0 T0 100 = FSA+CA+CA+CA+CA+CA+CA+CA+CA+CA+CA+CA+CA+CA	L ITRP2(D, ID, 4,2, G, FG, 3,2, TA, 4, FSA) = FSA * (DEN/62.4)**0.21 = FSA = FSA = D2/D1 SD. F0.1.) GO TO 100 = FSA*YCF(RD, TRD, TRD, TRD, TRD, TRD, TRD, TRD, T			F\$400170	1
L 1T3P2(D,1D,4,2, G,1G,3,2, TA,4, FSA) = FSA * (DEN/62.4)**0.21 = FSA = FSA = D2/D1 = D2/D1 = FSA*YCF(RD,1R3.10.2) = FSA*YCF(RD,1R3.10.2)	L 1T3P2(D,1D,4,2, G,TG,3,2, TA,4, FSA) = FSA * (DEN/62.4)**0.21 = FSA = D2/D1 SD. E0.1.) GD TD 100 = FSAAYCF(RD, TRD, TRD, TRA, 10,2) = FSAAYCF(RD, TRD, TRA, 10,2)		:	F SA00180	
= FSA * (DEN/62.4)**0.21 = FSA = D2/D1 RD.F0.1.) GO TO 100 = FSA*YCF(RD.TPS.10.2)	= FSA * (DEN/62.4)**0.21 = FSA = D2/D1 \$D. \(\) \(CAL	1T3P2(D, 10,4,2, G, 16,3,2, TA,4,	FSA00190	
= FSA = D2/D1 RD.F0.1.) GO TO 100 = FSA*YCF(RD.TR0.10.2)	F FSA = D2/D1 RD.FQ.1.) GO TO 100 RD.FQ.1.) GO TO 100 FSA*YCF(RD, TRD, T84, 10, 2)	FSA	# FSA * (DEN/62.4) **0.21		
= D2/D1 RD.E0.1.) GO TO 100 FSAAYCE(RD.TRD.10.2)	= D2/D1 RD.FQ.1.) GO TO 100 FSA*YCF(RD, TRD, T8, 10, 2)	C+	インは	FSA00200	
RD. EQ. 1.) GO TO 100 = FSAAYCE (RD. TRD. 10.2)	8D.EQ.1.) GO TO 100 = FSAAYCF(RD, TRD, TRA, 10, 2)	30	11	F5A00210	
a F3A#YCF(RD, TRD, TR5, 10, 2)	= FSAAYOF(RD,TRD,TRA,10,2)	IF(2	FSA00220	
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ن	IF(RD.LT.1.) RD=1./RD C4 = C4*YF(RD.TRU1.TRC4.9.2)	SA0024 SA0025	
)	NSDL54 COI	FSA00260 FSA00500 FSA00510	!
ုပပဲပ	SUBROUTINE FSE (J. DI.DZ, WUI,WUZ, GAM) CALCULATES S AND CI.2,3,586 SPRAY SHAPE COEFFICIENTS FCR TYPE I AND 2 ELEMENTS FINENSION FPM(S), TRD(S), TG(10), TBI(5,5), TRD(5,41, TREA	SEC00 SB000 SB000 SB000	
; ·	TR(E)	FSB00070 FSB00072 FSB00072 FSB00074 FSB00074 FSB00072 FSB00070 FSB00110 FSB00120 FSB00120 FSB00130 FSB00130 FSB00130 FSB00130 FSB00130 FSB00130 FSB00120 FSB00120 FSB00200 FSB00220 FSB00220	

FSB00250 FSPC0250	FSB00270 FSB00280	FS600300	FSB00310	FSB00330	FSB00340	FSE00350	FS500370	11.	uL.	ICE DE		アスプログル	FSB00440	FS500450	FSB00460	FSB00470	FSE004E	FS600490	FSE00500	FSE00510	FSB00520	FSEOOSSO	FSB00540	FS500550	FSB00.552	FS800554	FSE00556	FSE00557	FS500558
F(FUI.LT.MUZ .AND. DI F(MUI.ST.MUZ .ANG. DI	FD = 02/D1 RD = 01/C2) RM = WU2/WU1	F(WUI-CT-WU2) RM = WUI/WU2	F(A) V(MM/VD-1.0).GT. DD 20 I=1.5	IF(IR(I).N	Σ	n .) 	TH COU	ITF (6,440) 64M,01,02,001,WUZ,(IR(I),1H1,5)	TOKERFILES/VOYXO4FE AND CL SPRAY SHAPE COEFFICIENTS // 45X	V A L L O /// IRX TOHIMPINGEMENT ANGLE, CRIE TANDICA MOMENTON ROLATIONOHIDA ///24/ 27001/0440	FIGAL CORPELATION RANGE //// Alv State Statement to the	AM FSS ///19X 235.0AM, D1, D2, WU1, WU2 - 3F8.4, 1P2E12.4 //	27% 7HIR(I) = 51h)	The second of th	これが、 オースドイン スチース アース・スティー スプチース ファン・スプチース しんりゅう カン・カン・カン・カン・カン・カン・カン・カン・カン・カン・カン・カン・カン・カ	A TOTAL N. F. L. M. P. D. A. A. D. L. K. D. F. D. A. A. D. W. M. P. D. M. P. D. B. D.	マー・コン・アクチント ター・ウォーロット ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・	**************************************	→ C () - A () - A	1 50450400 UP 0040040040	20 08 UK - 141	0 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	TO DEFEND OF THE PART OF THE P	1	145 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	FILTHER NEW AMILE DATE	A CONTRACTOR	٠, ١	0 * 7 T < 0 T < 4 C T < 0 T < 7 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T < 1 C T <

FSB00560 FSB00570	SB00	B0059	S	FSE00620	FSB00630	FSB00640	(RD-1.0)	(RD-1.0)	FS800670	FSB00680	(W)	2A-YM)) FSB30700	FSB00710	FSB00712	FSB00720	1(J),52,SC12(J)FSB00730	FSB00740	FSB00750	FSB00760	FSB00770	FSB00780	FSB00790	FSB00800	FSB00810	FSB00820	FS800830	FSB00840	FSBC0850	FS500860	FSB00370	FSB00872	FSEODEBO	SBO	
= TANG2*(W UD1 = UU1/D	WUD2 = WU2/D2	= TANG2*(15 = 5 ANG	ZE =-TANG	$\forall 1 \land = 0$	42% = 0.96	F(&UC1.LT.WUD2 .AND. WU1.LT.WU2) XY1A = 0.96+0.0	F(WIDI.OF.WUC2 .AND. WUI.GE.WU2) XY2A =	Iv = VIE - XY10*(Y18-Y	26 = Y29 + XY2A* (YCM-Y2E)	(3) = (1r-508T(1-2-881*(Y1A-YM)**2)) / (0.5*(Y	CIS(3) = (.*.St.E)(I.*-2.*E)2*(YZA-YM)**Z)) / (0.5*(Y		SH (7) HS		IF(IERP.NE.C .OR. IR(6).NE.O) MRITE(6,80) B	CRMAT(/// 41X 4HS1 = 1PE12.4, 5X 5HC11 = E1	1 // 41X 4652 = E12.4. 5X 5HC1			C21(1) = SC11(3)**2/	C2?(J) = SCI	(S1(J) = C	C32(3) =	1 - Ju/Ad	* - ボード しょどの + ロ・ロシギー市内だ ロ・ゼ	YTI = YTI - XYTA*(YIS-YM) - Y	YIC = Y20 - XYTA*(Y25-	1 = SC41(, /(2.*CA1(J)	1 = 12.*f1*DYT1**2/R1*(1.+SC11(J)	-SC11(J)/(S.*61*DY	$C \in I(J) = (1 S \cap T \cap AMAX$		(* († † (†) (†) (†) (†) (†) (†) (†)

SB00902 SB00910	-SB00912 -SB00914 -SB00916	\$600920 \$800930	SE00940 SE0098J	0,440,000	L01C030	LCTC040	LGTC046	L01.C050		1.01C070	060217	L07C092 L07C094	LOTC098	LOTC160	LOTCIZO	PLGIC122 PLOTC130	LDTC140	LOTC150		
-SC12(J)/(2.*82*DYT2)) SGRT(4M4X1(0.12)))/(0.5*DYT2)	IONABE //	(J) **2/4• (J) **2/4•	d New Year Tree		PLOTS CONTCURS FOR LISP	COMMIN /LABS/ SWEZ. THER. THEL.	NAML, NTHML, NRWALL, NTHR, NTHL, MESH, NMESH	TIME AIT	(00), THETAM(400), STWI(400), STWZ(400)	IHI(39), NR, RI(20), RC, WI(39,20), JSYM,	/CPLCT/ KFCRT,KCCRT,KTCRT,KFFCRT,WIF,VCF,W1C,W2C,W1T,W2T,	1987, XMPI AMXI (36)	The state of the s		= THETAM(NTHL)-THETAM(NTHR)	= THETAM(2)-THETAM(1) = RADM(1)	361./THSEG	S H C C M MAC C C M MAC C C C C C C C C C C	SCHENAL COMPRESS NAMES TO THE MOST OF THE	

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PL0TC172 PL0TC180	0TC19	PLOTC20	PLOTC ///) PLCTC21	OTC22	3TC23	JTC24	3TC25	DTC26	JTC26	JTC27	JTC27	JTC27	JTC27	3TC28	JTC29	37030	JTC31	CTC32	3.7633	JTC34	21035	01036	3TC37	31038	2TC39	JTC40	JTC41	21C42	JTC43	3TC44	JTC45	3TC46	J1C47	31048
= NIH#NPASS+1 5 = F[5AI(NPASS)*THSF	(ABS(FLOATINSE	WRITE(6,10)	HI) LVWYO	H 000H	g re 15	I NAWALL	CO 30 IR=1,N	RT(IR) = FL	90 = 8T(M8)	0 4C ISEG=1,NS	H = HFLCAT(ISEG-1):	CTH(ISSC) = CDSD(T)	TH(15EG) = SINL(TH	(I) = THETAM (NIER	DO SO ITHE MIT	L(11) = TH		XFC0.7.	KTYPF = 1	001 11 100	KUCKT.	TYPE =	C 10 1	XICAI.	KIYPE II O	0 40 1	KFFCUT	± layı		C 200 J1=	# + OM II	+ 17 =	0 = 1	50 200 J=11,J2

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SUBPRCGRAM BLUCK PMDER / LISP

PLOTC490 PLOTC500	PLOTC510	PLOTC520	PLOTC530	PLCTC540	PLOTC550	PLCTC560	PL01C570	PLUTCS80	PLGTC590	PLUTC600	PLCTC610	PLC1C620	PLUTC630	PLCTC640	PLOTC650	PLUTC660	PLOTC670	PLUTC660	PL01C690	PLUIC700	PL07C710	PLCTC720	PLUTC730	PLUTC740	PLOTC750	PLCTC760	PL0TC900	PLCTC910
и г	J = STW1 (J)	Sr 70	II S	00	M13 =	GC TC 15C	101	e li Dis	$= \{qI,T\}$	SSYAN) HI	(7-71)	WI(JI,12) = WJ	206 CONTINUE	5632	CONTUR (KI CR	FUEL	16 60	LL CONTURINGENT WICHNED, AMAI,	IXI HES I	ت 11 عن ال	LL CONTUR (KTORT,	H HOU Y	01 11 00	ALL CONTURINGERECR	X3 oF CCNTC UP		SEC ENTIRE SEC	

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CUTINE P	PL012610
54(1) 4(1) 4X (1) 4X2(PL012020
XXXX 11	PL072070
MXMM(I.	PL012080
YMX = AMBY1(YIMX, Y2MX)	PL072090
YEV = AMINI (YIMN, YOMN)	0
C/LL LGRID(C+ X(1),X(V),YMN,YMX, 24,0,24,42, IERR)	PL072110
	-
CALL LINGS (N. K. YI, 11, 1, 3)	PL0T2112
Crll LINE((1, X, Y2, 1, 1, 1, 3)	PL072114
1	PL0T2120
IF('1.L1.E) VI=1	PLOT2122
1F(N.ST.40) VI=c	_
VI= MAXC(1, MI/Z)	PL072130
I + N + I N	PL0T2140
>	PL072150
Y2(NI),NI,NI,1,1,28,1	PL072160
CALL DRINGV(7, 7 MRACIUS=,10,1017)	PLCT2170
CALL LABLY(SAL,74,1017,6,1,2)	218
CALL PVINIV(5,5420M =,10,1602)	218
CALL L'SLV(ZCM, 58, 1002, 6, 1, 2)	PL072184
SETURN STREET	PL0T2190
	PL0T2200

CUNTROIG	CONTROSO	CONTRO40	CONTR050	CONTR060	CONTRO70	CONTRCEO	CONTRO90	CCNTR092	CCNTR 100
SUPRINTE CONTRO (NCLI, WMN, WMX, AMAT, TITLE)	CONTOUR FLOITING FOR POLAR COCRDINATES	ASITIEN NOV 1970 W CHADWICK		CIMENSION TITLE(9), AMAT(36)	C. YELN /SEGN/ NSEG, MTH, THT (39), NR, RT (20), RC, WT (39, 20), USYM,	Y CTH(36), STE(36)	COMMON YOUTHER X(4), Y(4), W(4), NCL, WONTR(35), RPU, RXC, RYC, JDIAG	X XXC, KYC	C_MMON_NASIZ BUMI, DUMZ, ZOM

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CONTRIZO	CNTR13 CNTR13 CNTR14	CONTRI42 CONTRI44	CUNTR145	CONTR146 CONTR148	CUNTRISO	CCNTR160	CONTRITO	CONTR190	CONTR194	CONTR20C	CONTR210	CENTR226	CONTR23C	CONTR240	CONTR250	CONTR260	CCNTR270	CONTRATA	CONTREE	CONTR290	CCNTR300	CONTR310	CONTR312	CONTR320	CONTR322	CONTRAGO	OTO STATE OF THE S	CUNIRSSO
ALL CAMPAU(9	CALL PAINTV(5,5HZCM =,16,1602) CALL LAFLV(ZCM,58,1602,6,1,2) CALL LAFLV(142,1614,1623, 96,2,36,1,117LE,1ERR)	X = 230 00 10 1=1-19	1	CALL SOIGTV(4)	CELL FILE (NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE	2 PPINIVIL4,14ECONTOUR LEVELS	4L1	, 7 T C 11		ON (*001-10-XVXX	F (XWAY)75 = A	eg Ca U	$\gamma = 1 \gamma - 1 + 1$	1 17:	KYC = 45	11 45	シズメール シズム	7 7 7 10 10 11 11 11		SINCITAL	[= V1=-)	- 1	#11 0g 0n	TH = +JTH	1 = 62	~~ =	

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CCNTR600 CONTR610 CONTR620 CONTR630 CONTR910 CONTR910	CLEV.010 CLEV.020 CLEV.030 CLEV.030 CLEV.040 CLEV.050 CLEV.050 CLEV.080 CLEV.100 CLEV.110 CLEV.110 CLEV.110 CLEV.110 CLEV.110 CLEV.110	CLEVL160 CLEVL170 CLEVL180 CLEVL190 CLEVL200 CLEVL220 CLEVL220 CLEVL240 CLEVL250 CLEVL250 CLEVL250
CALL CCNTRP(G+KX2+K IF(II-6C+I) CALL (GN PETURA	GCUTINE CLEVESCHOLL; wmm, wmx) TO COLICUS LEVELS F WMX-LI-WFM, WMMX IS MMX W F WWX-LO-WFW, WWMX S WMIN ARE MMX E MIN W F WCX-LO-WFW, WWMX S WMIN ARE MMX E MIN W F WCL: IS MFD, SCALF IS CALC WITH NCL APPROX = -NPLI MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NR, RT(20), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39,20), NCL, WCNIR(35), RC, WT(39,20), MCN /SEGN/ NSFG, NIH, THT(39,20), NCL, WCNIR(35), RC, WCNIR(35), RC	I = 1.%

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(J),1.6-50) (J),1.6-50) F(J)) * VOF(XMK, TMR, CST, NCSTR, 2) FT, TMR, CST, NCSTR, 4)) MIXING EFFICIENCY = 2PF9.4)	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;			
SUM = 0. THE 1 = THE (1) THE 1 = THE (NCSTE) OC 5C J1=NTHE,MESH,NTHML J2 = J1+NTHE_NIHR CO 50 J=J1,J2 XMR = MC(J)/AMAXI(WF(J),1.6-50) XMR = AMINI(XMR,TMR) XMR = AMINI(XMR,TMR) SUM = SUM + (MO(J)+WF(J)) * VOF(XMR,TMR,CST,NCSTR,2) ECSMIX = SUM + (MO(J)+WF(J)) * VOF(XMR,TMR,CST,NCSTR,4)) ECSMIX = SUM + (MO(J)+WF(J)) * VOF(XMR,TMR,CST,NCSTR,4) ECSMIX = SUM + (MO(J)+WF(J)) * VOF(XMR,TMR,TMR,TMR,TMR,TMR,TMR,TMR,TMR,TMR,T		01 01 03 (5.11.	UI YELV IO	
TMP 1 = TMP(1) TMP N = TMR(NCSTR) OC 5C J1=NTHR,MESH,NTHML J2 = J1+NTHL-NTHR CO 50 J=J1,J2 XMR = MC(J)/AMAX1(WE(J),1.6-50) XMR = AMIV1(XMR,TMPN) XMR = AMIV1(XMR,TMPN) XMR = AMIV1(XMR,TMPN) SUM = SUM + (MO(J)+WE(J)) * VOF(XMR,TMR,CST,NCSTR,2) ECSMIX = SUM/(IT*Y)E(DT/FT,TMR,CST,NCSTR,4)) KOTF(C,50) ECSMIX ECSMIX = SUM/(IT*Y)E(DT/FT,TMR,CST,NCSTR,2)	SUM = 0.		MIXEF280	
<pre>1MP N = TMR(NCSTR)</pre>	T = I CMI		MIXEF290	1
<pre>00 5C J1=NTHR,MESH,NTHML J2 = J1+NTHL-NTHR 5D 50 J=J1,J2 XMR = MC(J)/AMAX1(WE(J),1.E-50) XMR = MC(J)/AMAX1(WE(J),1.E-50) XMR = AMIV1(XMR,TMR) >C SUM = SUM + (MO(J)+WE(J)) * VOF(XMK,TMR,CST,NCSTR,2) ECSMIX = SUM/(IT*Y)E(DT/ET,TMR,CST,NCSTR,4)) KOTE(C,50) ECSMIX ECSMIX = SUM/(IT*Y)E(DT/ET,TMR,CST,NCSTR,4)) 100 RETURN END</pre>	AL II NOWL	MR (NCSTR)	MIXEF300	
J2 = JI+NTHL-NTHR 50 50 J=JI+J2 XMR = MC(J)/AMAXI(WF(J),1.E-50) XMR = AMINI(XMR,TMR) 50 SUM = SUM + (MO(J)+WF(J)) # YOF(XMK,TMR,CST,NCSTK,2) ECSMIX = SUM/(IT*Y)F(DI/FI,TMR,CST,NCSTK,4)) WOITF(c, to) ECSMIX 60 FCRMAT(ZZEJ CSTAR MIXING FFFICIENCY = 2PF9.4) 100 RETURN 5ND	50 50	UI=VIFR, MESH, VIHML	MIXEF310	
<pre>50 50 J=J1,J2 XMR = WC(J)/AMAXI(WF(J),1.E-50) XMR = MC(J)/AMAXI(WF(J)).1.E-50) XMR = AMIVI(XMR,TMR) XMR = AMAXI(XMR,TMR) 50 5UM = SUM + (WO(J)+WF(J)) * VOF(XMK,TMR,CST,NCSTK,2) XVIF(C,50) ECSMIN 60 FCRMAT(ZZISX 26.4 GSTAR MIXING FFFICIENCY = 2PF9.4) 100 RETURN 5NO</pre>	() = S)	I+NIHC-NIHS	MIXEF320	
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XMR = AMINI(XMR,TMR) XMR = AMINI(XMR,TMR) SUM = SUM + (MO(J)+WF(J)) * VOF(XMK,TMR,CST,NCSTK,2) ECSMIX = SUM/(IT*Y)F(DT/FT,TMR,CST,NCSTK,4)) WOIF(C,50) ECSMIX 60 FCRMAT(ZZISX 26.4 GSTAR MIXING EFFICIENCY = 2PF9.4) 100 RETURN 5NO	" XXX	= WO(J)/AMAX1(WF(J).1.E-50)	MIXEF340	
XMR = AMAXI(XMR,TMR1) 50 SUM = SUM + (MO(J)+WF(J)) * VOF(XMR,TMR,CST,NCSTR,2) ECSMIX = SUM/(II*YDF(DT/FT,TMR,CST,NCSTR,4)) WOIFF(c,50) ECSMIX 60 FCGMAT(///ISX 26.4 GSTAR MIXING EFFICIENCY = 2PF9.4) 100 RETURN 5NO		TAILLI XMR - TEST	MIXEF350	
SUM = SUM + (WO(J)+WF(J)) * YOF(XMK,TMR,CST,NCSTK,2) ECSMIX = SUM/(IT*YDF(DT/FT,TMR,CST,NCSTK,4)) KOTF(c,60) ECSMIX 60 FCGMAT(///ISX 26.4 GSTAR MIXING FFFICIENCY = 2PF9.4) 100 RETURN 6NO		A BRAXI (XMR TMRI)	MIXEF360	
ECSMIX = SUMZ(IT*YDE(DIZET,IMR,CST,NCS1R,4)) WOIFF(c,60) ECSMIN 60 FORMAT(ZZISX 26.3 GSIAR MIXING FFFICIENCY = 2PF9.4) 100 RETURN 5NO	x00	= SUM + (WO(U)+WF(U)) + VOF(XMK, 1MR, CSI, NCSIK, 2)	MIXEF370	
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PMDER / STC SUBPROGRAM BLOCK

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u egg	"ISEQ, MASEG, MSTI, NEPS, PEXIT, ECFVAT, NMACH, ECSTRI, PMS, PIE, RVAPE RMMCM /CCM6/ WISO, NRISO, IERR PRR(20), XMN120', XI(20,20), RI(20,20) COMMCM /CCM7/ GA, RR, RI, ZY, 2PVSR, I28C, PZ(20), RZ(20), PSTAR RATVAP, CD RA	7 FORMATCIMI, LEX.47H BIPROPECLANT LIQUID ROCKET COMBUSTION ANAEYSI 1 22H USING S T C PROGRAM 1 6 FORMATC/ 36x,30H WULTIPLE STREAM TUBE ANALYSIS 1 12 * 1	AFRING 2 NAMED # MAXOII. CO 70 Jel.AST ARRAI(J) # 382(CASSIGN A XOR Sercial a XOR Sercial a XOR	00 70 Islandr 0x5P4(1:3) = XHS 0VE(D1(1:3) = XV 001AD1(1:3) = XD 70 CONTINE	TOASE E D. TOASE E D. SSPRE E D.

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PMDER / STC SUBPRUGRAM BLUCK

(F):		0901NI)	CINTIOTO	CINIIO80	060INI) (F	CINIIIO	4		I • (IHTLOSS)	1) * (1HTLOSS)	CIMII 150				CINII CINII 190			CINIIZO		PR(I, J) CINII240	CINITSEO	CINITS	CINI1280	CINIIO	CINITAZO	CINII340	09811390	CINII380	(1.1) CINI1400	CINI 1420		CINITE	I*RL*GDIADI(I,J)**3) CINII48	CINIFO CINIFO	
- 1730040	GASF . SUMFC!	GASO . TGASO . SUMBOOK	101 1-1 0E	1.67.46	SF . SSPRF . GKSPR[I.	0 B 01		o cortrade	I CTAFLE/CTGASF+SSPRF	CERC # (TRFIOZITEASO+SSPRO	24.194. 29	5 - 11.10°	C(11) . F	S = 173 :4	つししょぎロタノイアコンロギロタ * 1745	はない かかつのまが	4CF : 94.01	6 mm Mr	IFUL CO. NOB. 119110H E	CHOPROTON A PPECUMPCHO		20 Jel: 45	SEFERIOR SUMPOLUI	#775 # (C).		110 181 011	1	いっては、	FLUIDIA SWELCIUI & CMSPRE	00* 04 00	1 医乳红叶炉	ARR A CP A SARR	DCT1(1,1) =	0 - 17.11100	

PMDER / STC SUBPROGRAM BLOCK

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                                      SHRG(1)
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     CALL TABLES(1)
                                                       SMFLO(1)
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IF(NC.NE.C) GO TO 124
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PADER / STC SUBPREGRAM BLOCK

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                                                                         (SUMFC[1]+SUMCC(1)1/(12.*RMOG1(1)*AREA1(1))
                                                                                           TCOG(1)*(1. - 0.5*(1SGAM(1) - 1.)*(VELG1(1)/
                                                                                                                          PC(1) # FIF*(TCG1(1)/TCGG(1))**(SGAM(1)/(SGAM(1)-1.1)
                                                                                                                                                                            . * SINGLE STREAM TUBE PROPELLANT SPRAY PROPERTIES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CADCTI (1,11/112. *GVELDI (1,11 *AREA1 (1))
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                                                                                                                                                                                                                                                                                                                                                                                                                              * (DEUM/GRUDTI(I,1))**(1./3.)
                                                          - PC(11*SMMG(1)/(12.***TCG1(1))
                                                                                                                                                                                                                                                                                                                                                             COUNT - COUNT - GNECTICI, 114GDIADICI, 11+43
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PRDER / STC SUBPROGRAM BLOCK

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PROFR / STC SUBPROGRAM BLOCK

	128G # (APROF GAAP-1:1)-2START:/ZINCR + 1. 75ND#1: # 26MD # - 27NGR	CINI3592 CINI3600
	S741 147	CIN13605
	S .	CINI3607
	• 	CINI3609
220	DC.	CINI3610
		CIN13620
	1 * ZSTART/21MCR * 0.1	CINI3625
	* (1/10g + 1)*	CINI3630
	18/18/18/10 260 TO 260	CZNI3650
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;	The second and the second seco	C1214700
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*	WRITE CUT FURTHER LATITALIZATION DATA.	CINI 3980
		C1834050
3		CINI4040
•	* AVERICED ILITIAL-PLAYE DATA FOR SINGLE STREAM TUBE ANALYSIS.	CINI 4960
		CINI4070 CINI4080

PADER / STC SUBPROGRAM BLOCK

WRITE(6.1310) W PROPE PROPE TREE, PROPO, TMFLO, CMRI PROP PROPE WRITE(6.1326) DROP PROPE WRITE(6.1326) DROP PROPE WRITE(6.1340) DROP PROPE WRITE(6.1340) DROP PROPE WRITE(6.1340) DROP PROPE 15(1.56.WGF) DROP PROPE BRODGILLI, GWEDDI(1,1), GWEDRI(1,1), GWEDRI(1,1,1), GWEDRI(1,1,1), GWEDRI(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	CINI 4090 CINI 4100 CINI 4120 CINI 4160 CINI 4160 CINI 4200 CINI 4220	CINI 4260 CINI 4360 CINI 4360 CINI 4360	CINI 4380 CINI 4380 CINI 4400 CINI 4410 CINI 4410 CINI 4410	CINI 4500 CINI 4520 CINI 4540 CINI 4570	CINI 4660 CINI 4660 CINI 4720 CINI 4760 CINI 4760	CINI4800 CINI4805 CINI4810 EVAPOCINI4820
	RECOF. TMFLF. PROPO, TMFLO. CMRI XDIA . CCIADI(I.1) PROF. I.GOIAM(I.1).GNODI(I.1),GNODTI(I.1). GRHOD(I.1).GYELDI(I.1).GKSPR(I.1) PROF. PROPO	SUMBECLI: , SMRG(I), TCG1(I), VELG1(I), PC(I)	TOWAL WULTIPLE STREAMTUBE DATA ARE WRITTEN DUT. 1 PC(1) 1 (J, GASFL(J), VELGI(J), SMRG(J), TXGI(J), RHCGI(J).	at 21 to variables at 22.	0.0 .e6.1.480.15T.ME.11 GD TO 405 Jælige . VelG1(11)	COPRESPONDING TO COMPLETE EVAPO
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PMDER / STC SUBPROGRAM BLOCK

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CINI4830 35HCINI4840 cini4840 cini4860 4 13 //) CINI4890 4 23 //) CINI4980 4 //) CINI4980 6 // CINI5000 HWT.FLOWRATCINI5020 HPRESSURE, CINI5260 CINI5220 CINI5220 CINI5220 CINI5220 CINI5232 CINI52320 CINI52330	AVAR0100 AVAR0120 AVAR0140 AVAR0160 AVAR0200
18AJIGN * 2PF9.3.6M PERCENT } 5 FORMATION * 2PF9.3.6M PERCENT } 5 FORMATION * 2PF9.3.6M PERCENT } 5 FORMATION * 2PF9.3.6M TUBE ANALYSIS & FORMATION * CINIGRO CERTIFIED TO CERTIFIED CERTIFIED TO CERTIFIED CERTIFIED TO CERTIFIED CERTIFIED TO CERTIFIED CER	* A V A R * SURFCUTING AVAR(WAP, DELX, XID, XT) APROF (J, L) IS CHAMBER GEOMETRY PCINIS (X, Y) ABS (WAP) = NO. POINTS Let FOR AXIAL DISTANCE FROM INJECTOR IN INCHES
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PMEER / STC SUBPROGRAM BLOCK

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CED	IL INCREMENTS	AVAR0350	
<u>ئ</u>			
0	TE POINTS FOR INNER C	Q.	
SULPERCES. NOT	BETH SUR	S. AVAR0420	
1 15 INJECTOR AREA			
CHIRACTIO		AVAR0460	
LERDFULLING TOT ZERO.	THROAT WALL RADIUS OF CURVATURE		
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1) 40804 / 70Y	K(300), DUM(154), VOL, VOL1, AS		
と言じ			
AN 3	IMENSION ASAVE(300) * *		
* NO1575		AVAR0580	
		AVAROSOO	
\ 0 \		AVARO620	
-		AVARO640	
* (C		AVAR0660	
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•		AVAR0700	
		AVAR 0720	
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PAMER / STC SUBPROGRAM BLOCK

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まずはなったもの(ひゅう/ひん)		AVAR 1064
RG1 CO TO E		AYARIDED
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OFFILE 11-XICE/FLOAT (NP-1)		KVARLIBO
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Ĩ.		4V4R1600

PROER / STC SUBPROGRAM BLOCK

#1.11 GG TG 50 21 20 GWGW. GT. 1. E - 1.21 CO TG 54 - 4 PROF (KI. 1) 21 GG TG 52 - 4 PROF (KI. 2) / OENGM - 4 PROF (KI. 2) / OENGM - 4 SCOPE* (XI. 1) - 5 CG TG 60 - 4 AP - 6 CG TG 60 - 6 CG TG 60 - 7 CG TG 70 - 7 CG TG 60 - 7 CG TG 70 - 7 CG 70	~ ≽	SO SO LEKY EMPERENT OF SO TO TO BO		AVAR1620	
(Ki, i)) 62 TO 50 23 42. OE WOM, GT. 1.6 - 12) CO TO 54 1-8 PROF (Ki, i) 12. GO TO 52 1.6 - 12) GO TO 40 21.6 - 12) CO TO 40 22 NAP 24. 5 - 5 LOPE*(X(I) - APROF (KI, i)) TO 62 TO 62	30001		1	<i>.</i>	ŧ
(KI, L); GG TD 50 (KI, L); GG TD 50 (KI, C); GT 1.E-12; GO TO 54 1.E-12; GG TG 52 1.E-12; GG TG 60 21-E-12; CG TO 60 21-E-12; CG TO 60 22-MAP 40-21 TG 52 TG 52				<i></i>	•
#1,111 GG TG 50 21 42.0E4CM.GT.1.E-121 GO TO 54 1-8.0E4CM.GT.1.E-121 GO TO 54 1.E-121 GG TG 40 21.E-121 CG TG 40 21.E-121 CG TG 40 22.E MAP 4.1.E-22 4.11**2	, T		•	AVARI 720	
(KI, II) GG TO SO (E1, II) (E1, II) GG TO GG (E1, II) (E1, II) GG TO GG (E1, II) (E1, II) GG TO GG (E1, II) (E1, II) (E1, II) (E2, III) (E3, III) (E4, I	· · · · · · · · · · · · · · · · · · ·	;		AVAR1740	
### OEWOW GT.1.6-12) CO TO 54 ### PROF (KI.1) 121 GG TG 52 1.6-121 GG TG 40 1.6-121 CG TG 40 2 - MAP 4.9.21 TG 62 TG 62		(*1,12, 69 YD 5		AVARITED	•
##.DEMOM.GT.1.E-12) CO TO 54					
### #### #### ########################	3			DOUT WAY	
121 GG TG 52 1.6-121 GG TG 40 1.6-121 CG TG 40 1.6-121 CG TG 40 2.73 * SLOPE*(X(I)-APROF(KI,11)) 1.74 * SLOPE*(X(I)-APROF(KI,1)) 1.75 * SLOPE*(X(I)-APROF(KI,1)) 1.75 * SLOPE*(X(I)-APROF(KI,1))	33 * E 2 1	12.05.00M.6T.1.6-121 CO TO 5		AVARIBED	
121 GG TG 52 -1.E-121 GG TG 40 -1.E-121 CG TG 40 -2. = tap Lo.2. = scope = (x(1) - aprof(k1,11)) TG 62 TG 62	医安全 美国的	1-THOUGH (KI'L	-	AVAR1860	
21-APROF(K1,21) / DENOM 21-APROF(K1,21) / DENOM 21-E-121 CG TG 40 321 * SLOPE*(X(1)-APROF(K1,11)) 40.21 TG 62 TG 62	SE SE	121 66 16 62		AVAR18ED	
21-APROF(K1,211 / DENOM -1.E-121 CG TO 40 -21	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.1.E-121 GO TO 4	-	4VAP 1900	
21-APROFIKI,211 / DENOM 1.E-121 CG TO 40 22 * NAP 4.11-APROFIKI,111 15 &2 15 &2 16 &2	- 4 C			AVARIOZO	
1.E-121 CG TO 40 21 * \$LOPE*(X(I)-APROF(KI,1)) 2 * \$LAP 4.11**2		21-APROF(K1,211 / 0		AVAR1950	
LT.1.E-121 CG TG 40 K1.21 * SLOPE*(X(I)-APROF(K1,1)) K2 * WAP GG TG &2 GG TG &2 AREA(II**2	18 0 mm			AVARI 980	
K1, X1 * SLOPE*(X(I)-APROF(KI, I)) K2 * MAP G0 T0 &2 GREATIT**2				AVARZODO	
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PMPER / STC SUBPROGRAM BLOCK

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PADER / STC SUBPROGRAM BLUCK

LANGE ST

Annual Control

		# R2	338
		1 5007 LAEA	3382
		TIDELX**2*(R2-R1)**21 * P1 * (R1+R2)	3384
	E	A VOL + OFLX+ (AREA(I-1)*AREA(I))/2.	m
Ų			3385
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	C	HINJECTOR AREA FB.3,5X, ISHCONTRACTION RATIO" FB	3620
		ICLUMEEF10.3/8X 7HL-STARE F8.2,5X 18HCHAMBER WALL	3640
		AM OF XID=FIO.3. 5	3660
U			3680
		FIRE GT.O. FRITE(6.94) RR	3700
	Q.	X 35MIMBCAT WALL CURVATURE RADIUS RATION F6.31	3720
U			3740
	001	CONTINUE AVARATED AVA	3750
U			3771
		# #1MO(WP+1,900)	AVAR3772
		E = MIMO(NP+25,24MP-1,300)	3773
		3dWeddwal 901	3776
	•		AVAR3775
			3776
	104	AVAR	AVAR3778
		SOLICI (X(11) AREA(1) IF1 NPM 10), X(NP) AREA(NP)	3780
		- (X(I) AREA(I) - I - NPP - NPE	AVAR3790
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PMDER / STC. SUBPROGRAM BLOCK

18 (1.4864) APROF(1.21 AFTURY EVO	EA) // 4(F11.2,G15.5)) ,21-A1		AVAR3826 Avar3846 Avar3860 Avar3900
2	CCDYWINPE) RP/CEHOD(12,19); GVELD1(12,19); COILD1(12,19); GDIAD2(12,19); COILD1(12,19); GVAP(12,19); COILD1(12,19); GVAP(12,19); COILD1(12,19); GVAP(12,19); COILD1(12,19); GVAP(12,19); Z(300,20); Z(300,20); Z(300,20); Z(300,20); Z(20); Z(2	GVELD2(12,19), GNOD1(12,19), GNOD1(12,19), GWSPR(12,19), GWSPR(12,19), S:26) ([19), S:26) ([19), SGAM(19), 9), RMCG1(19), 9), RMCG1(19), 9), SMACH(19), 19), TCG1(19), 19), TCG1(19), 19), TCG1(19), 19), TCG1(19), 10), TCG1(19), TCG1	00000000000000000000000000000000000000
	ANDREI (191 - ANDREN EL91 - A		C6070620

PMDER / STC SUBPROGRAM BLOCK

,		CATA GC, R, PI / 32.174; 1545., 3.14159 /	CGDY0730
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		GC TO 5	CGDY0820
		SOU RIEL TIS	CCDY0830
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	र ज र र	S CONTINUE	CCDY0900
,	•		01604090
ر ا			C60Y0920
ن	*	SUBROUTING TABLES PROVIDES COMBUSTION GAS PROPERTIES.	CCDY0940
U		,	CCDY0960
		CALL TABLES(MTS)	CCDY0980
U			CGDY1000
			CGDY1020
ပ			CCDY1080
ی	*	UPDATE ESTIMATES OF GASDYNAMIC VARIABLES	CDGY 1 100
U			CCDY1140
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		+ 1000(41)+(1-(200%(N1)-1-)+(AEF02(N1)/2AD2(N1)+#5/3-)	CGDY1180
		* かがことしきのままの「なし」/(コン・チスチーハのン(なー))	CGDY1200
		* SUBDO (MI) * SUBFO (MI)	C60Y1210
	ろ い ら		CGDY1320
ں			2
		1F(1ST.EQ.1) 60 TO 660	CGDY1350
ں			CGDV1460
ں	•		C60Y1480
ر،			CGDY1500
J			CGDY1600
		SUMSTA # C.	CCDY1620
Ų.			CCDY1640
		OG 850 ATRIFACT	CCDY1700

PMDER / SIC SUBPROGRAM BLOCK

	ACAS & CANDRAL (WI) + AREA2(WI)*D2DS(WI))/2.	CGDY1720
		7
		176
	# 1 C+(564×(NT) - 1.1/(2. +SVO5(NT)##2)	CGDY1 780
	(WOOTI(NT)*VELCI(NT) + ABAR*(SSPRM(NT)	CCDY1800
	SINCRIVITY + GC+ANDRMI(NI) + (PI(NI) - PZ	65Y182
	1000 CE.4.0400 GO 10 532	CGDY1822
	III.6T.1CRC+11 GO TO 52	C6DY1824
	VFLG2[21] = -0.5*	CGDY1826
	40 534	CGDY 1828
N	118(6,530) 2(1	CSDYIE30
•	9 MA T (/ 10 K , 2 M Z B F 7 . 3 . 6 M .	CGDY 1832
2.00 (C)	2(NT) = BUAD(A, B, C, VELG2(NT))	CGDY1840
i		CGDY1842
23	JELG2(MT).GT.O.SeVELCI(NT)) GO TO 54	CGDY1844
		CCDY1845
. •	N	CGDY1846
N 4,4	AATI//10x,2HZ= F7.3,6H, III= I2, 8H, VELGZI I2,2H)*	CGEY 1846
	34H MAS OVERRIDDEN WITH 1/2 OF VELGIC 12,2HIR F9.3	CCDY1850
	VELCZ (MT) = 0.5 eVELG1(HT)	CGDY1852
540	1 4CE	CGDY1854
		CCDY1856
	# 1006(41)*(1[564#(NT)-1.]*(VELG2(NT)/SVOS(NT))**2 /2	. 1CGDY 1860
	# P2(NT) # SENG(NT) / (12. * RR*TC	CGDY1280
	MT).	CGDY1890
	ن	CCDY1900
8 0 0	SIMETA & SUMSTA+KREK2[NT]	CC0Y1920
	(11)	_
	J.CE	N.
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property (management)

PMDER / STC SUBPROGRAM BLOCK

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د		3	C6DY2500
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		SORAGIMT - GC*PI(NT) 1/GASFL(NT)	CGDY2580
		LT. 4. * A * C) KRI	
		- CUADIA: E.C. VEL	
		2(NT)/SVGS(NT))**2/2.1	CGDY2660
		e GASFL(NT)/112. OVELG2(NT) * ANDRM)	CGDY2680
		12. * FREDGO (ST) * FFFTGO (NT) / SMEG (NT)	CGDY2700
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	•		CGDY2740
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	603		CGUY2850
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			CGDY2994
-	613	((SVOS(J)/VELG2(J))**2 - SGAM(J)/2. + 0.5)	CGDY2996
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		3 614	C60Y3010
	•		CG0Y3020
		129	C6DY3040
		12)+PC(12)-PC(12-1)	C60Y3050
	•	[52(I)-VF[61(I)	CGDY3060
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     rcc2(1) = rccc(1)*(1.0 - (SGAM(1)-1.)*(VEL62(1)/SVDS(1))**2/2.)
                                                                                                                                                                             670
                                                                                                                                                                                                                                                                                                                                                                        - GC+SDRAG(1))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (1.C-(56AM(1)-1.)*(VEL62(1)/SVDS(1))**2/2
                                                                                                                                                                             IP(ABSIAREA2[1]-AREA1[1]).LT.O.GOIPAREA1[1]*ZINGR) GO TO
                                                                                                                                                                                          TANZ & (AREA2(1)+AREA1(1)-2.*SORT(AREA2(1)*AREA1(1))
                                                                                                                                                                                                                                    E (2.45GET(TAN2+1.)-2.9/TAN2
E 1.-0.25%7AN2+0.125+TAN2+42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GO TO 700
                                                                                                                                                                                                                                                                                                                                                                                                              Z(1Z), III, NT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PHOC2111 = GASFL(1) J(12. #VELG2(1) * AREA2(1) * FAREA)
. . SINGLE STREAMTURE GASDYNAMICS. (THROUGH S/N 707)
                                                                                                                                                                                                                                                                                                                                                                      -(NDOTILLIEVELGILLE * ABAR* (ZINCR* (SSPRML)
                                                                                                                                                                                                                                                                                                                                   a ARARARACCATCOS(1)/(FAREA*AREA2(1)*SMWG(1))
                                                                                                                                                                                                                                                                                                                 m (AREAL(1)*FAREAL * AREA2(1)*FAREA)/2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IF(IZ.LT.MP) SHC9 = CCSAR(IZ1/CCSAR(IZ+1)
                                        60 70 700
                                                                                                                                                                                                                                                                                                                                                     # 1. - C#(SGAM(1) - 1.1/(2.#SVOS(1)##2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PC1121 # 12.48MCG2(11*8#TCG2(11/SMKC(1)
                                                                                                                                                                                                                                                                                                                                                                                                               WEITE (6,530)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       UZ(12+1) - 2.*UZ(12) - UZ(12-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       U2(112:1) = 2.*U2(12) - U2(12-1)
                                      660 [FIVELGZ[1], GE. (0.98 & VSON(1))]
[FIII], 67.2 / GC TO 670
                                                                                                                                                                                                                                                                                                                                                                                            + CC*PC(12-11))/GASFL(1)
                                                                                                                                                                                                                                    IFITANZ.CT.O.25) FAREA IFITANZ.LE.O.251 FAREA
                                                                                                                                                         60 10 670
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                                                                           REAZLLI = CCSAR(IZ)
                                                                                              (F(11.10.0) FAREA #
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCG2(1) = TCOC(1)
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CGDY3802
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    + ZINCR#(SSPRM(1)/CC-SDRAG(1)) + 12.*RHOG1(1)*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IST
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                                                                                                                                                                                                                                  SMACH[1] = 1./SQRT( [SYOS[1]/VELG2[1])**2-SGAM[1]/2. + 0.5 ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCONVO(20),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCG1(19).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SUMDC (19)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GVELD1(12,19), GVELD2(12,19),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GNDDT2(12,19),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GNCD1(12,19),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DKP (95)
                                                               AREAL(1)*VELG1(1)**2/((AREAL(1)*AREA2(1))*O.5*GC)} /
                                                                                                 (1. + SMMG(1) *VELG2(1) **2/(R*TCG2(1) *GC))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TNBF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DHVF.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SUMFC(19),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VELG2(19),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STOT (19)
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                                                                                                               (F(111.60.2)
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                                                                                                                                                                      (11215GW
                                                                                                                                                                                    REAS2(1)
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PROFR / STC SUBPROGRAM BLOCK

	13CX = 27	RC 108570
	22. (T. 21.2) GO TO 110	RCDDR580
○	5) 3 5	RC00R590
	~	RCCOR 600
	3	RCCOR 610
00	¥	RCCOR620
	151	PCDDR 630
	AIIL = (9IL(L2)-RIL(L1))/(ZIL(L2)-ZIL(L1))	RCDDR 540
	SSL(1) = (RSL1-RIL(L1)*A1SL/A11L-(Z1-Z1L(L1))*A1SL)	RCDDR65G
^	X (1AISL/AIIL)	RCDDR652
	x ZILIL1 + AIIL*(POSL(I)-RILIL1)	RC00R654
	* VFLS14HT) + (2DSL(1)-21)/(22-21)*(VELG2(NT)-VELG	RCGGR656
	1 8 8280 81	RCCOR65B
	MRITHIG.901 22.1.2LZ.LI.LZ.AISL.AIIL.RDSL(I).VIL(I).XMRIL(I)	RCDDR660
×	POSEZIVE)	RCC08662
Ġ	FORMAT(/4H 2= F7.3, 4H, I= 13, 6H, 2L2= F9.5, 5H, L1= 13,	RC00R663
	5M; L2x13; 7H; AISLEGI4,5; 7H; AIILEGI4.5/	RCCOR664
- 4	64, 865; (1) F 614.5, 9H, VIL(I) E 614.5,	RCCCR665
. •	ILM, XMRIL(I)= FB.6, 12H, RDSL2(NT)= 614.5 1	RC OOR 666
C		RCDDR670
0		RCOUR 680
	1.LT. 457+1) CO TO 200	RC00R682
	22 :	RCOOR 683
	16,120) ((1,80SL(1)),1=1,NST)	RCCOR684
120	IT(IM1///69H STREAM TUBE DIVIDING STREAM LINE RADII A	TRCCOR686
	INITIAL LINE //5x, 18H PUINT RADIUS, IN., 5x, 18H POINT	JSRCCOR687
- 1	//(7x,12,0PF12.6,7x,12,F12.6))	RCCOR688
		RCCDR689
500		RCCCR690
		RCCOR 900
	Section 200 and 200 an	RCC08910

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S. A. Constant

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	「おしまなくる」の表によりのも独立と	PVSR0010
ن		
Ü	SOLDAR SA SER	PVSROOZO
U	GENERATED ISOBAR A	PVSR0030
U		PVSR0040
	er iere	PVSR0050
	201, XMM(201, X1(20	PVSROOGG
	RR. RT. ZT. ZPVSR. IZBC. P	PYSR0062
U		PVSR0070
Ų	LOCATE BRACKETING INDRARS AT AXIS	PVSR0074
		PVSROOBO
		PVSR0090
	17.641 01 CO	PVSR0100
		PVSROIIO
	SEX S	PVSRO120
	のなるといればか	PVSR0130
	20 1504 # 1505.	PYSROI40
		PVSROISO
Ç		PVSR0160
ں	INTERPORTE ON PRES & RADIUS BETWEEN ISOBARS	PVSR0170
	では、 100mm	PYSRO180
	30 00 50 1411,129	PVSR0190
		PVSR0200
	AS A MINISTER OF THE PROPERTY	PVSR0210
	SOB.LE.11 GO	PVSR0220
U		PVSR0230
	150A * 150B	PVSR0240
	1-9051 - 3051	PVSR0250
		PYSR0252
		PVSR0260
U	DISTANCE BETH ISCORAS	OVSR0270
	40 XA B XIVISOR X	PVSR0280
	PACE # (Y-X4)/EXELY	PVSR0290
	*	PVSR0300
	KI + (RI(ISOB,K)-RI(PVSR0310
U		PVSR0320

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200		PVSR 0910	,
	SCUTING RORI	KPR I MO10	
	DRIME CALCUL	KPRIM012	
	MEITIOMS AND ADJUSTED IN SUB COMB FOR NU NO.	KPRIHO14	
	P & THERMAL CONDUCTIVITY OF VAPOR ARE TABULATED FUNCT	KPR IMO20	
	TURE. J WALUES OF TV WITH CORRESPONDING VALUE	KPR1M030	
	OF COV & TOUND	KPRIMO40	
	CHEST SETS OF	KONTECOO	
	10/1	KPRIM062	
		KPRIM063	
	スクシンド # 大のコント・1	KPRIM064	
		KPR IMO68	
	i	KPRIM070	
	18(1.Lt.6.6) 00 10 2	KPRIMOSO	
		KPRIM090	
		KPRIH092	
		KPR 2 2094	
C4		KPRIM 100	
	COLAKING TO COURSE ASE	KPRIM120	
		KPRIH130	
		KPRIM140	
		KPRIH142	
	한 # PP	KPRIE 44	
		KPR IMISO	
		KPEIE160	
	11-31-1	KPRIM162	
		KPRIM164	
	OK DOK HOLL WIND FORM IN MIXING	KPRIM166	
	SE 100 100 100 100 100 100 100 100 100 10	KPRIM167	
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		KPR IMI 70	

PASE A -150

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Secondary Second

U	IF(T2.CT.TC) GO TO 12	KPRIM172 KPRIM174
	I=I+1 T2-T2+DELT	KPRIM180 Kprim182
	IX	Kprim184 Kprim186
၁		KPRIM188
	IF(KK,EQ.M) GC 10 6 CP2=YCF(T2,TV,CPV,J,L)	KPRIMI90 KPRIMI92
	TCOM2*YOF172, TV, TCONV, J.L.	KPRIM194
	8 CP CS	KPRIM196
۵ ر	ů	KPRIM200
	してつなる。またののなどによっている。	KPRIM202
v		KPRIM204
ස	CPM=(CD1+CP2)/2.	KPRIM210
	TODAK = (TODA) + TODAS / 2.	KPRIM220
	A CASA A PORT A	KPRIM222
	の記事を行えるのである。「ひまくものころ」。	KPRIM230
		7
S		KF 15646
<u>:</u> پ		
	12 185 51	KPRIM262
	TREKOUMT.FG.11 WRITE(6,20)	. ~1
20	OMB. TEMPERATUR	KPRIH272
	1//51X,7HO X I D	KPRIM274
	IFIKCUNT.EG.21 MRITE(6,30)	KPRIM276
ř	FURNATIVELY UELVII	KPRI#278
		KPRIM279
		88
9	PORMATIOPFILAIFIPEIGAGE OPFILAIFIPEIGAGE OPFILAIFIPEIGAGE	Ξ
	1 00F11.1.1PE14.4)	KPRIM283
	TF(KOUNT.EG.21 KOUNT#5	IM28
	Section 2015	PRIM29
		KPRIM300

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FRCH ISCEAR DATA GENERATED IN TRANS COMMON (ADZZABRRCE[12,2], CCSAR[300], Z[300], AREA[119], AREA[19], DELARG(20), PVSSTD COMMON /P/ PC[300], PC[7300], PPC[501], PC[501],		SUCROUTINE PYSST(IZ, MTS, NP, III) P VS ST - SETS UP MEAN PRESSURE IN EACH STREAM TUBE	PVSST010 PVSST020 PVSST030	i
CGMMCN /9/ PGEARTIST, AREAZIST, DELARS(20), RBARI(19), RBARZ(19), SINCR119) CGMMCN /9/ PGC1300), PCC(20), DCDS(19) CCMMCN /PS/ PLI191, PPC(19), DRDS(19), DCDS(19) CCMMCN /PS/ PLI191, PZ(19), DCDS(19), DCDS(19), DCDS(19), DCDS(19), DCDS(19), DCDS(19), DCDS(20), RI(20,20), RI(20,20) CGMMCN /COM/CA, RR, RT, ZT, ZPVSR, IZEC, PZ(20), RZ(20) CGMSTANI PRESSURS PLANE CGNSTANI PRESSURS PLANE CGNSTANI PRESSURS PLANE CGN 10 NTH, WTS CGN 10 CO FF(III,GILL) GG TC 26 FF(I	CGMMCN /P/ PELARS(19), DELARS(20), RBAR1(19), RBAR2(19), SINCR119) CGMMCN /P/ PE(1300), PPE(120), DEDS(19) CCMMCN /PS/ PI(191, PPE(191, DPUR(19), DRDS(19), DEDS(19)) CCMMCN /PS/ PI(191, PPE(191, DPUR(19), DRDS(19), DEDS(19)) CCMMCN /PS/ PI(191, PEC(1), XM(20), XI(20,20), RI(20,20) CCMMCN /CCMCATER	ISCEAR DATA GENERATED IN TRANS /ADZ/APRCE(12.2). CCSAR(300). Z(300)	665	
CCMMCN /P/ PC(1301), PC(13001), PPC(201), U2(3001) CCMMCN /PS/ PI(191), P2(191), DPDR(191), DRDS(191), DZDS(191) CCMMCN /PS/ PI(191), P2(191), DPDR(191), DRDS(191), DZDS(191) CCMMCN /CCM/CA1, EMRISC1, EMRISC1, EMRISC1, RI(20,201)	CGMMCN /P/ PC(1300), PC(1300), PC(1300) CGMMCN /PS/ PI(191, P2(191, DPDR(191), DRDS(191), DZDS(191) CGMMCN /PS/ PI(191, P2(191, DPDR(191), DRDS(191), DZDS(191) CGMMCN /CGMC/MISO, MRISO, JERR FPSIMI PRESSURS PLANE PCIT = PC(121) CGMCN /CGMT/CA, ER, ET, ZT, ZPVSR, I28C, P2(201), R2(201) FPSIMI PRESSURS PLANE PCIT = PC(121) CGMCN /CGMT/CA, PSIMI PRESSURS PLANE PCIT = PC(121) CGMCN /CGMT/CA, PSIMI PRESSURS PLANE PCIT = PC(121) CGMCN /CGMT/CA, PSIMI PRESSURS PC(101) FRAMIL = PC(11/PC(111) = PC(11/PC(11) = PC(1	AREAL(191, AREA2(191, DELAR	SSTC7	
19), PZ(19), DPGK(19), OKDS(19), OZDS(19), OZG(19), RZ(20), RI(20,20), RI(20,20), RZ(20), RZ(2	191, PZ(191, DPGK(191, ORDS(191, OZDS(19)) 02, NRISG, IERR (201, XMK(201, XI(20,20), RI(20,20) SEA, ET, ZT, ZPVSR, IZEC, PZ(20), RZ(20) STARI R) GO TC 20 URS PLANE CSAG(K1/3,141591/RT AT(KRISC-1) FC(11) * PC(1NP) FK1/PSTAR RT WALL - FLGAT(I-1)*DS	COMMON /P/ PE(300), PC1(300), PPC(20), U2(300)	PVSST090	:
#R. RT. ZT. ZPVSR. IZBC. PZ(20). RZ(20) #R. RT. ZT. ZPVSR. IZBC. PZ(20). RZ(20) #R. RT. ZT. ZPVSR. IZBC. PZ(20). RZ(20) #I GO TC 20 #R. GO TC 20 ###################################	(201, xM(201, XI(20,201, RI(20,201) RS, RT, ZT, ZPVSR, I28C, PZ(201, RZ(201) STARI STARI R) GO TO 20 URS PLANE CSAR(K1/3,141591/RT AT(MR15C-1) PC:(1) * PC:(NP) fk1/PSTAR R1 CAMALL - FLOAT(1-1)*DS	/PS/ PILL91, PZ(191, DPOR(191, DRDS(191, DZDS(1 /COM6/VISO, NRISO, ZERR	PVSST100 PVSST110	
STARI R) GG TC 20 URS PLANE URS PLANE CSARIKAS 141591/RT ATIMRISC-19 FK1/PSTAR RT K1/PSTAR RT CSARIE - FCAT(1-1905)	STARI R) GO TO 20 URS PLAME 10 26 VSR F GC TO 24 VSR F GC TO 26 VSR F GC	. CEMECA /COM7/CA. RR. RT. 21. 2PVSR. 128C. P2(20). R2(PVSST120 PVSST124	
ES TO 20 URS PLAME 10 26 VSR GC TO 24 CSARIKI/3.141591/RT ATIMRISC-1 FRI/PSTAR ATL - FLOAT(1-1)*DS	# 1 GO TC 20 URS PLANE TC 26 VSR 1 GC TC 24 CSAR[K] 2 = 141591/RT AT[WRISC-1] PCI[I] * PCI[NP] #X /PSTAR #I ST WALL - FLOAT(I-11*DS)	* PSTARI	PVSST126 PVSST130	•
URS PLAME 10 26 VSR GC TC 24 CSAC(K)/3.141591/RT ATIMRISC-1; FCI [1] = PCI (NP) FK /PSTAR RT WALL - FLCAT(I-1)*DS	URS PLAME 10 26 VSR GC TC 24 CSAR[KI/3=141591/RT AT[WRISC-1] FK1/PSTAR RT CSAR[KI/3=141591/RT AT[WRISC-1] FK1/PSTAR RT CSAR[KI/3=141591/RT FK1/PSTAR FK1/PSTAR FK1/PSTAR FK1/PSTAR FK1/FK1/FK1/FK1/FK1/FK1/FK1/FK1/FK1/FK1/	8) GO TO 2	PVSST150	
10 26 VSR GC TC 24 CSAR(KL/3.141591/RT ATIMRISC-1 FKI/PSTAR ATI - FCAT(I-11405	10 26 VSR GC TC 24 CSAC(K) / 3.141591/RT AT (WRISC-I) AT (WRISC-I)	v. ED	PVSST160	
10 26 VSR GC TC 24 CSAR[K]/3.141591/RT ATIMRISC-1 FCI [1] = PCI [NP] FK PPSTAR RT ALL - FLOAT(I-11*DS	10 26 VSR 6C TC 24 CSARIK1/3.141591/RT ATIMRISC-1 1 FK1/PSTAR RT MALL - FLGAT(I-11*DS	アウェイ・・アウェンス	PVSST170	
10 26 VSR GC TC 24 CSAR[K]/3.14159]/RT AT[MRISC-1 FCI [1] = PCI [NP] FK /PSTAR RT ATL - FLCAT(I-1)*DS	10 26 VSR 6C TC 24 CSAR[KL/3.141591/RT AT[WRISC-1 FCI [1] * PCI [NP] FK1/PSTAR ST WALL - FLOAT(I-11*DS)	215d a (11) to 6	PVSST180	Ì
10 26 VSR GC TC 24 CSARIK1/3.141591/RT ATIMRISC-1 PCILI	10 26 VSR GC TC 24 VSR GC TC 24 CSAR[K] S. 141591/RT AT[WRISC-1] FCI [1] = PCI (NP) FK /PSTAR RT WALL - FLOAT (I-11*DS)	למ ומ ומ ומם	PVSST192	
VSR F GC TC 24 CSAC(K) / 3 . 141591/RT AT (WRISC-1) FCI [1] = PCI (NP) FK / PSTAR RT ALL - FLOAT (I-1)*DS	VSR F GC TC 24 CSAR[K]/3.141591/RT ATIMRISC-1 FC1[1] = PC1(NP) FK1/PSTAR RT WALL - FLOAT(I-1)*DS	10 26	PVSST200	
CSAC(K1/3,141591/RT AT(MRISC-1) PCILLS = PCI(NP) FK1/PSTAR ATL - FLGAT(I-11*DS)	CSACIKISTALGISOLART ATIMAISTAL FCILL = PCILNP! FKL/PSTAR AT C C C WALL - FLOAT(I-11*DS) 1	VSA F GC TO	PVSST202 PVSST203	
ATIMRISC-1) PCILLS = PCI(NP) FK1/PSTAR ST	ATIMRISC-1) PCI(1) = PCI(NP) FK1/PSTAR ST ST WALL - FLOAT(I-1)*DS	REALL * SCRITCESACKES3.141591/RT	PYSST204	į
PUSSTZ FK1/PSTAR FK1/PSTAR PVSSTZ PVSSTZ WALL - FLOAT(I-1)*DS PVSSTZ PVSSTZ	PUSSIZ FK1/PSIAR FK1/PSIAR PVSSIZ PVSSIZ WALL - FLCAT(I-1)*OS PVSSIZ PVSSIZ	DS # REALL/FLOATINRISC-13	PVSST206	
PVSST2	PVSST2	アンドボル オープライン・アンド・アンド・アンド・アンド・アンド・アンド・アンド・アンド・アンド・アン	51 20 51 20	•
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DVSST2 MALL - FLOAT(I-1)*DS PVSST2 PVSST2 PVSST2	PVSSIZ PVSSTZ WALL - FLOAT(I-1)*DS PVSSTZ PVSSTZ PVSSTZ PVSSTZ	POSTER B POSTER	ST21	
PVSSTZ WALL - FLCAT(I-1)*OS PVSSTZ 1	PVSST2 WALL - FLOAT(I-1)*DS PVSST2 PVSST2 PVSST2	DE 28 ERINGES	5121	İ
WALL - FLOAT(I-1)*DS PVSST2	WALL - FLOAT(I-1)*OS PVSST2 PVSST2 PVSST2		2 <u>1</u> 5	
Pyssica	TASSIA LA CARRA LA CA	- 77KM	ST22	
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Linear Linear Collection

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ACCOUNTS OF

PROER / STC SUBPROCRAM BLOCK

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PYSST246
                            PVSST250
                                          PVSST260
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                                                       PVSST254
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   PVSST244
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            TEO, RHONBO, RHOLO,
                                                                                                                                                                                                                                                                                                                                                                                                                    DPDR(191, DRDS(191, DZDS(191
                                                                                                                                                                                                                                                                                                                                                   RHDG1 (19),
                                                                                                                                                                                                                                                                                                                                                                TCG1 (19),
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                                                                                                                                                                                                                                          GMOD1(12,19),
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                                                                                                                                                                                                                                                                                                                                                                                                       U2 (300)
                                       PRINTI - YOFIRBARRINTNAT. RZ.PZ. NRISO,21 - PSTAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                TNBF
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                                                                                                                                                                                                                                                                                                                                                   VI SG (1919)
                                                                                                                                                                                                                                                                                                CCSAR(300), 2(300),
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                                                                 OPORTATI = (P2(4T)-P) / (REAR2(MT)-P)
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                                                                                                                                                                                                                                                        CNOD2(12,191.
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                                                                                                                                                                                                                                                                                              CAGE/AFROFF 12.21.
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XMENAX-F**X-XF1/[F-FF] FFFF XFF*XF XFF*XF XFF*X RETURN END	RRISCO IERR	11)	*2 *2-x1 *#*X1(X**YR) *.GT.YR) GD TO 20 (Y*-XR)/2. X1-XR	X2*XM SCALG(X1:K2:12:KL:KR:DX:IRX) O X8-XL DXDYV(2:YB:YT:D: M:J:W: 12::IR) DXDYV(1:XL:XR:D: M:J:W: 12::IR) CAMEAV(9) SETMIV(24:93:24:45) GGIDLV(1:KL:XR:YB:YT:D:D:-M:M:J:J

		40 %C				PLOTO240 PLOTO242	
IY = NYV(R(LC, 11) + 6 CALL [LARLY(XI, IX, IY, 2, 1, 2)] CALL [LARLY(XI, IX, IY, 2, 1, 2)] CALL [LARLY(R, 10, 1014, 1022, 90, 2, 49, 1, 49HCONSTANT PRESSURE AND MACH LINES IN THEOM PESICH: 1.1 CALL LARLY(RA, 456, 990; 7:1, 2) CALL LARLY(RA, 456, 990; 7:1, 2) CALL RITEZY(S14, 9, 1023, 90, 2, 4, 1, *X/RI*, NL) CALL RITEZY(S14, 9, 1023, 100, 2, 4, 1, *X/RI*, NL) IX = 930 IX = 930 IX = 930 IX = 750 CALL LARLY(G, *P/P**, IX2, IY) IX = 750 CALL LARLY(G, *PACH*, IX2, IY) IY = 17-5 CALL LARLY(G, *PACH*, IX2, IY) IY = 17-15 CALL LARLY(G, *PACH*, IX2, IY, 8, 1, 2) IY = 17-15 CALL LARLY(KI, IX1, IY, 3, 1, 3) IY = 17-15 CALL LARLY(KI, IX1, IY, 3, 1, 3) CALL LARLY(KI, IX1, IX, IY, 3, 1, 3) CALL LARLY(KI, IX1, IX, IY, 3, 1, 3)		X & NXV(X(LC, 1))				LOTO	
CALL LIMFG(20;X(LC,1);R(LC,1),20,20,3) CALL RITER(00:1014:1022:90.2:49:1,49HCONSTANT PRESSURE AND MACH LIMES IN TROAT PRESIDENT: CALL LABLEV(PR.294:990) CALL LABLEV(PR.294:990) CALL RITERV(51,49:490:7:1,2) CALL RITERV(51,49:490:7:1,2) IX							•
CALL RITERV(60:1014:1022:90:2:49:1;49MCONSTANT PRESSURE AND MACH LINES IN THROAT PEGICH:11:1 CALL LABLA(0:204:90:0) IN		LL LIMEG(20, X(LC, 1), X(LC, 1), 20, 20, 3				010	
LIMES IM THROWINE 2, 80 m. 262:990) CALL PRINTYE 2, 80 m. 262:990) CALL LABLV(GA, 456, 900;7:1,2) CALL RITEZV(514,9,1023,180,2,4,1),4X/RI**NL) CALL RITEZV(514,9,1023,180,2,4,1),4X/RI**NL) CALL RITEZV(6, 5) 4, 90.2, 4,1),1 X2,1 Y3 IX m 930 CALL RITEZV(9,514,1023,180,2,5,1)*R/RI**NL) CALL RITEZV(6, 90,1023,180,2,5,1)*R/RI**NL) IX m 930 CALL RITEZV(9,514,1023,183) CALL LABLV(P(1),1X2,1Y,8,1,2) IY m 19-45 CALL LABLV(KM,1),1 X2,1 Y,8,1,2) IY m 19-45 CALL LABLV(KM,1),1 X2,1 Y,8,1,2) IY m 19-45 CALL LABLV(KM,1),1 X2,1 Y,8,1,2)		Li RITEZVI 60:1014:1023:90:2:49:1	PRESSURE	AND		PLOT0260	
LL PRINTUR 3. *RRE * 262.990) LL LABLV(02.294.990) LL LABLV(CA.294.990.77.1.3) LL LABLV(CA.456.990.77.1.2) LL RITEZV(SI4.95.1023.180.2.4.1.*R/RI**NL) LL RITEZV(SI4.95.1023.180.2.4.1.*R/RI**NL) LL RITEZV(9.514.1023.180.2.4.1.*R/RI**NL) LL RITEZV(9.514.1023.180.2.4.1.*R/RI**NL) LL RITEZV(9.514.1023.180.2.1.) LL PRINTU(4.*P/P**.IX1.1Y*3.1.3) ALL LABLV(YI*IX1.IY*3.1.3) LL PRINTU(4.*PACH'*.IX1.IY*3.1.3) ALL LABLV(XI*IX1.IX2.IY*B*1.2)	-	LINES IN THROAT PECICIE.	:	;	!	PLOT0262	į
LL CASLV(00,294,990,7:1:3) LL DSINTV(6:5AMAR*,400,990) LL LASLV(64,456,990;7:1:2) LL RITEZV(514,9,1023,90,7:1:2) LL RITEZV(514,9,1023,180,2,4,1,4X/RI*,NL) LL RITEZV(9:514,1023,180,2,4,1,4X/RI*,NL) LL PRINTV(4,'00/00*,1X2,1Y) a 17-5 b 25 relaw150 c 17-5 c 17-5 c 17-5 c 17-5 c 17-5 d 1		LL PRINTER D. BROKE 5262:99				010	
LL DRINTV(b. 68404049903 LL LABLV(GA, 456. 990.7.1.2) LL RITEZV(S16.9.10.23. 90.2.4.1.**X/RI**NL) LL RITEZV(S16.9.10.23.180.2.4.1.**R/RI**NL) INI B 930 LL PRINTV(4, *P/P***IX2.IY) LL PRINTV(4, *P/P***IX2.IY) ALL LABLV(F(I), IX2.IY; LABLV(F(I), IX1.IY; LABLV(F(I), IX1.IX1.IY; LABLV(F(I), IX1.IX1.IY; LABLV(F(I), IX1.IX1.IY; LABLV(F(I), IX1.IX1.IX1.IX1.IX1.IX1.IX1.IX1.IX1.IX1.		LL LABLV(00,204,990,7:1:3				010	
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LL RITERVIGES14:1023:180.2.4.12*R/RI**NL1 IX1 = 930 IX2 = 667 IX = 750 LL PRIMITVIC.*P/P**, IX2.IY) ALL LABLVINI: IX1: IY-3.1:31 ALL LABLVINI: IX1: IY-3.1:31 L PRIMITVIC.*MACH** IX2.IY) E Y-65 L PRIMITVIC.*MACH** IX2.IY) R Y-65 ALL LABLVINII: IX1: IY-3.1:31 X = IY-15 X = IY-15 X = IY-15 X = IX-15 X = I		LL RITE2V(514,9,1023, 90,2,4,1,4X/				FL0T0310	
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1x2 = 967 1y = 750 ALL PRINTV(4, P/P**, IX1IY) y = 1Y-5 00 90 TelsNISO XI = 1 IY = 1Y-15 CALL LABLY(XI:IXI:IY:3:1:3) CALL LABLY(XI:IXI:IY:3:1:3) CALL LABLY(XIII:IX1:IY:3:1:3) CALL LABLY(XIII:IX1:IY:3:1:3) CALL LABLY(XIII:IX1:IY:3:1:3) CALL LABLY(XIII:IX1:IY:3:1:3) CALL LABLY(XIII:IX1:IX:IY:3:1:3) CALL LABLY(XIII:IX1:IX:IY:3:1:3)		# 1 X 1				PL010330	
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V = 1V-5 NO SC [=1=N15C] XI = 1 IV = 1Y-15 CALL LAGLV[VI:IXI:IY+3+1+3] CALL LAGLV[V(!),IX2*IY) Y = 1Y-45 V = 1X-45 CALL LAGLV[X:IXI:IX-1+3] CALL LAGLV[XI:IXI:IX-3+1+3] CALL LAGLV[XIIIIX-3+1+3] CALL LAGLV[XIIIIIX-3+1+3] CALL LAGLV[XIIIIIIX-3+1+3]		ALL PRINTVIG. D/P* IX2.				PLCT0360	
00 50 TeleNISC XI = 1 IY = IY-15 CALL LAGLY[XI:IXI:IY:3] CALL LAGLY[YI:IXI:IY:3] XI = IY-45 Y = IY-45 Y = IY-45 Y = IY-15 CALL LAGLY[XMIII:IX2:IY:8:1:2] CALL LAGLY[XMIII:IX2:IY:8:1:2] CALL LAGLY[XMIII:IX2:IY:8:1:2]		. A. B. A.				PL 0T0370	
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<pre>x = 17-45 x t PRINTV(4.*ACH*.LX2.LY) y = 17-5 co t L1.M150 x</pre>		CALL LABLV(P(I), IX2, IV, 8,1;				PLCT0420	
ALL PRINTY(G. MACH'. IX2.IY) Y # FY-6 CO 60 I=1.MISS KX # I FY = YY-15 CALL LASLV(KMM(I).IX2.IY38.1.3) GALL LASLV(KMM(I).IX2.IY38.1.2) GAUNAMA		100-100 B				PLOTO430	
Y = fy=6 CO &O I=1,MISO KI = I fy = fy=15 CALL LASLV(KMM(I),IX,3,1,3) CALL LASLV(KMM(I),IX,2,1,3) PLOT	まれた。 かなれなどとした。 ままのは、 もれだい。			1	PLOT0440	1	
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K% = 1 fy = fy-15 CALL LASLVEXI.[X].FY.3.1.3} CALL LASLVEXMM(I).[X2.17.6.1.2] PLOT		017 1 = 1 00 C				PL0T0460	
<pre>fy = fy-is CALL LAGLV(x*M(I):IX2:IY:6:L:2! PLOT GAUL LAGLV(x*M(I):IX2:IY:6:L:2! PLOT PLOT MACHINELY</pre>		*				PLCT0470	
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                                                                                                                                                                                                                                                                                                                                                                           P21 41, ( SNOW2 ( I , I ) , GND T 2 ( I , J ) , GD I AD 2 ( I , J ) , GVE D 2 ( I , J ) ,
                                                                                                                                                                                              TEGZ (J), RHOGZ (J), SUMOC (J) SUMFL ,J), GASFL (J), SMAC (J).
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                                                                                              DPDR(191, DADS(191, DZDS(191
                RHDG1 (191.
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                                                                                                                                                                                                                                                                                                                                             17.PC1371,f(AREA2(J),RBAR2(J),205L2(J),VELG2(/)
                                 TCG1 (19).
  SCAM(19)
                                                              SUMBC (19)
                                                                               U2(300)
                                                                                                                                BILL, IZPR, CISI, IZ, AZ(18), PIE
                                                                                                                                                                                                                              CHSPRIL, JI, CREDDII, JII, TEI, NGTI, JEI, NSTI
                                                                                                                                                                                                                                                                                                                                                                                            CHESPACE, 1, CAMCE. I. 1), LAI, NOTI, JEL, NST)
                                 V"LG2(19)
                                                                SUMFC (191,
                VISG(19).
  TCCC (19),
                                                                               PPC(2v);
                                                                                                                                                                               FZ.PC(12),((4REA2(J),RBAR2(J)*
                                 VELGIII91.
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  SHRG(191.
                 *16135UAS
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Control of the last

PHDER / STC. SUBPROGRAM BLOCK

11ER8784 11ER8784 11ER8786 11ER8790 11ER8796 11ER8796 11ER8798	ITERBEOGE ITERBEOGE ITERBEOGE ITERBEIG	TERBESC TERBESC TOKSCOIO	TOKSO020 TOKSO030 TOKSO030 TOKSO030 TOKSO030 TOKSO032 TOKSO032 TOKSO036 TOKSO036
			THIL (40). RATVAP
DG 12C Jel.MST PA(J) = &P*P2(4) RHGG2(J) = &P*EHGG2(J) V: (G2(J) = VELG2(J)/R° SUMFG(J) = &F*SUMFG(J) SUMFG(J) = &F*SUMFG(J) SASG(J) = &F*SUMFG(J) GAJFL(J) = SUMFG(J) SAGG(J) = &F*SUMFG(J) FX = P1 PG 120 1=1,NGT	CALL CHANGS(2) REWING 2 DY 150 HT11 E	end End Subadutius tokset	COMMON /SYV/ A(SO1, MST COMMON /P/ P(1300) COMMON /TTX1/ ROSL(191, PIL, ZIL(60), RIL(40), 1 COMMON /TTX1/ ROSL(191, PIL, ZIL(60), RIL(40), 1 COMMON /TTX1/ ROSL(191, PIL, ZI, DUM(42), PSTARI, 1 COMMON /TTX1/ GA, RR, RT, ZI, DUM(42), PSTARI, 1 MENING KSTC/ 4MTOKP, Z/ FIL = PILPPSTARI DC : IME, 40 ZIL, XI = (ZIL(1)-ZI)/RT
	051	200	~

PHOER / STC SUBPANGRAM BLOCK

TOXSOLOG TOXSOLLO TOXSOLLO TOXSOLLO	TDKS0130 TDKS0140 TDKS0150	10KS0160 10KS0170 10KS0180	TDKS0200 YDKS0210 TDKS0220 TDKS0230	TDKS0238 TDKS0240 TDKS0250 TDKS0260	TDKS0278 TDKS0280 TDKS0290 TDKS0300	10KS03L3 10KS0320 10KS0322 10KS0324	10K S0 32 7 10K S0 32 8 10K S0 340 10K S0 350 10K S0 350
	FCR T P K //		O .				
BUTCH B BUCCESTER DO 32 ERLENGE MUNCHEL B ROSECTI-ZHEZRE ROSECH E ROSECTI-ZHEZRE	10-KOI 11thi bix Bampunam 13thi bix Bampunam	NSEG # 1000 WELTE(6,30) NST, CLO, MSEG PUNCH 30, MST, CLO, MSEG FORMATIBLE, COX A4,141	WEITE (6.40) PC(1), PIL, RATVAP, CID, RSED PUNCH 40, PC(1), PIL, RATVAP, CID, NSED FORMATING PIL, RATVAP, CID, NSED FORMATING PIL, S. JOK 44, 14)	NESS = 1020 FORMATIONO FMRILL FORMATIONO FMRILL CALL PUMIXMETS F. T.CIG.NSEGI	45.00 m (N'SCOZICALIMIC MRITETERCOI O FORMATI RMO VILI CALL PUNIVILINSTICIO,NSFOI	ASSO & FURSO/10+11*10 WFITE(6,62) FORMET 9FO 2056, LALL PUNZOSL, RST.CIO, NSEO)	NSEG * (4556, 10+1)*10 #PITE 16.704 FORMATI 940 ROSL! CALE PUVERSE, NST, CIO, NSEG!
₹: 2		0	9	9	9	4	36

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S. Carres

PMDER / STC SUBPROCRAM BLOCK

			YDKS0365	
G	6	SOUTH CAME OF STREET	5037	*
.		CALL SUN(711.40	TDKS0390	
		•	10KS0358	
		ASSEC a (MSSSS/10+1)els	TDKS0400	
			10KS0410	
Ų-	05	本語をひ込	IDK S0 420	
		04.	TDK 5043C	
			TDK S0438	
		40FG 2 (48EQX10+11+10	TDK S0440	
		201184 18C	TDK50450	
-	00 00 00		10KSG460	
.		******	TDKSG430	
,		TERMINE AND PILL MST	TDKS0490	
		TELESTET - 1951 (11 - 4051 (11 - 1 - 151)	TDK S0500	
		CENTER (ZILIII-OILII) THILI	TDKS0502	
		FOLKSTEL RATUAR	TDKS0504	
		TON HILL	TDKS0510	
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			TOKSOBOO	
		C & E	TDKS0810	
			:	
¢		CHOKYED MI WED AD EADINE	CPAIGOIG	
3 a :		STOUGHT SPRAY ARES FOR P K P K	CPM16030	
			CPH10040	
		2.191. GVELDI(12.191. GVELDZ(12.1	CPM10050	
	~	GOIADI(12,19), GDIADZ(12,19), GNOD1(12,19)	CPM10060	
	_	GNDDT1(12,19), GNDDT2(12,19	CPM10070	
	_	GDRAG(12,191, GVAP(12,191, GHSPR(12	CPMIOOSO	
	_	COLAM(12, 191,	CPM10090	

PHDER / STC SUBPROGRAM BLOCK

	100814 - 100814 AL	0010190
	AREAZI191, DUM41581, SINCRI191, DUMI391	010
: *	VOLL. AS. ZATO, WG	CPM10104
CORROL	UKS (133), RHD61(19),	CPMIOIIO
之はままむし	MP. DUMILLAI, RHOLF, DUMZ(5), RH	RT . CPM10320
	MST. NGT, NGF, DUMBIS), TMFLF, TMFLD	CPMNONSO
~	F7(4), ZIMCS	CPMIO132
この名がいな	JIAPE, NREC, IC	CPHIGIAG
} !	, MCCHAM, ESPENP, ECSTAR, ECF, THR	CPR10142
~	CF. CXFR. HTLOSS, CR. ECSMIX, ECSENR, ZIMPF.	54 LOIMADOAMIZ
14 20		CPM10190
		CPM10200
3-21141	50 10	CPM10210
INT TABLERS	₩	CPM10220
JANA DE		CPM10230
a Cuay	5	CPM10292
SOLVE STATE		CPENO240
131187	MAPPINST, NGT, NGF, THELF, THELD	100 X 20 X 20 X
1 = 211		このま10200
125476		CPMIOZGA
GZC N ZINCH		CPM10270
SEMOA	• •	CHAIONBO
() = 32	START-RIEDET/12.	CPMIO290
7) = 07	STANT-ZIMPOL/10.	CPM10292
00 10	10 NT=1, NST	CPMIONO
* %7	32	CPHID302
Sex 5	A SREDA + REDGICETIVE RREALINE)	CPMIOSIO
00	10 Mori . Mot	CPKIONNO
1 4 1	X2 1.4	CPMIOSS
10 10	*	CPMIO340
S # CKO	* SAMDAZCCSAR(1)	CPATOBEO
		CPM10360
S	មិត្ត	CP#10364
		CPM10370
20 IF(12,6T,4P)	1.4P) 60 TO 40	CPATOMBO
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PMDER / STC SUBPROGRAM BLOCK

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	SUMA = SUMA + AREA2(NT) SRHDA = SEHDA + (AREA1(NT)+AREA2(NT))+(RHDG1(NT)+RHDG2(NT)		0420
	IC NG-1,NG	•	0770
		•	1450
•	N STATE OF THE STA		0990
7	APPAT LAND		1470
	TOY II NUMBER 14.	CPMIO480	480
	ACT IN THE PRESENTATION OF THE PROPERTY OF THE	CP#10490	0650
	(CPM10500	200
		CPMIOSIO	1510
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	10	CP#10540	2540
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ස ආ	CONTENDE		1558
	HOITE (JIAPE) ((GMS,)R (NG, NT), TRES(NG, NT), NG=1, NGT), NT=1, NST	•	1560
	TARLE - CARE	CPM10562	1562
	Tarans a mana a source services and source services are sourced se	CP#10570	1570
	IF LIZALIANDI CO TO 40	CPHIOSBO	1580
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	いのない。	CP210600	0091
		CPHI0620	1620
		CPMI0630	1630
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	SCHAM - SCRT (CCSAR(11/0. TES41	CP#10650	1650
		CPRIOSEO	1660
		CPM10670	670
Ç		CPMIOSOD	008
}		TROITAGO TRO	310

CPM10820

-		CPM20010	
	STILL UP SPRAY MASS DEPLETION TABLE	CPM20020	
		CPM20030	
	COMMEN ACPRECA TRISOL, SPRANFISCI, SPRANDISCI	CPM20040	į
	ACCHOMY STAPE, NREC, ICRISO,	CP#20050	
-	, MCCMAM, ESPIMP, ECSTAR, ECF, THRUST, SIM	CPM20052	•
₹≨	CF. CXFR.	をかりのの知るり	•
	CHARRED TO	CPRNOOSO	
	CATA C10, MANG / GHODOO, 320/	CPM20070	
		CP#20080	,
	SERVICE CALABOR	CPM20084	
	ANAMICANDER ANY, SOL BOT BET BOT	CP#20086	
		CPM20090	
		CPM20094	
		CP#20100	
C		CPMZ0110	1
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	有限工程序 点	CPM20146	
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Ö	计记录器 華 电高速光明的计算的记忆与中部发出	CPMZO150	
		CPM20160	í
	دستا ا	CPM20162	
	9	CPM20164	
	DEFENDED THE ST	CPM20170	
	"不及人工", 一一 所见的本节(第一生)中国的主义	CPM20180	

PRIDER / STC . SUBPRICRAM BLOCK

SPRAYFII = 0. L = 0 CD 100 47=1,NST Ji = J;F CD 100 47=1,NST L = L N = Z	CPM20190 CPM20200	CP#20210	CPM20216	N	CPM20224	CPM20230	CPM20240	CPM20250	CPM20252	CP#20260	CP#20280	06X02X4U	CEH20300	CPM20302	CP#20304	CPM20310	CPM20312	CPM20314	CPH20320	CP#20330	CPM20334	CPM20340	CPMZ0350	CPM20360	CPM20370	\$PM20380	CPH20390	CP#20400	CPH20402	CPM20410	CPM20420	CPM20430	CP#20460	2047	CPM20480
100 100 14 100 1100																			-												ZSTART				
SPRAYELL CO. SPRAYELL CO. SPRAYELL CO. CO. CO. WILLIANST L. C.											•									1,X)*											LNIO				
	S			CO LCC ATAL, AST		DO TOO NOTINGE		1000 1000 1000 1000 1000 1000 1000 100	Triming Road Roft Land Land	00 EG 7 17 10 EG CG	I FITALISTE TRESCL, KII GO TO 50	× × × × × × × × × × × × × × × × × × ×	IFINALE MARCI GO TO 40		INITALLI, GT. TRESIL, ARECLI GO TO	大	OTOPS & TRESIL, X1-TRESIL, X1)	IFIDTRES.LE.O.1 GO TO 100	F B (TREATHTRESEL, KILL) / OTRES	SOR B SPRANCL, KINE [1-1-1 + SPRAY	IF(SP7.LE.C.) GD TO 100	IF (MG. GT. NGF) GO TO TO	SPEANFILL & SPRANFILL & SPR	C	SPRAYDILL SPRAYDILL + SPR	CONTINUE	CORTURIE	00 104 752,50	SPRAMELL BURKAFILLIMET	TORYITICALBOX - INJUNEOUS :	CURVE FIT FROM IMPINGEMENT F	1F(NGF.EQ.0) GO TO 150	CHIT PHATEGORE IN	130/114-11-417-1450 = 15	SIX N 0.024VI

MOER / STC SUBPROGRAM BLOCK

CPM20490	CPM20500	C-M20920	CP#20530	CPROONEO	CPH20560	CPM20570	CPM20574	CP#20580	CP#20590	CP#20720	CPH20724	CPM20726	CPM20728	CPM20730	11. CPM20740	FIP INCPRS0750	CP#20760	CPM20770	CPM20775	CPM20778	CPH20760	CPM20790	CP#20800	CPM20810	Co#20820	CPM20830	CPRZP840		されていません		
* 1		THE CALL OF	FINCF.CE.NGTI GO TO 180		12 x 0.02*121	Z = (I.ecleTR	1 * 51-2-042*	1-017 * 2	CO 160 JANUAR 160 SORANGES A ANTENESSAMESTRATION OF STARTS AND MATERIAL TO THE	Mark Andrews Company	8.1 *1 061 00 08	i i		OC MELTELGAZIOI (TRIII,SPRAYFII),SPRAYO(IF,IR	RMATILIMI 33% 43MFUEL AND OXIDIZER SPRAY DEPLETION FUNCTIONS	1 23% CAMPRACTION UNWAPORIZED AS A FUNCTION OF TIME (MENT // 16x GMTIME 1CX GMFUEL 8X BHCXIDIZE	4HFUEL EX ENDXIDIZER // (TX 3F14.4, 4X 3F14			ICATSO.NE.	TO PLOT	ALL LERIBIO.	ALL LIMEGISO	ALL LINEG(50,TR,SPRAYD,I.1,2	LL APLOTVÍGB, TRIZI, SPRAYFIZ	ALL APLOTVINGS TRITIOSPRAYOUT	ALL GITEZUES		<u>.</u>	

PROER / STC SUBPROGRAM BLOCK

					Ì			• ;	
CPH20832 CPH20900	14x 43HFUEL AND OXIDIZER SPRAY DEPLETION FUNCTIONCPH20910	CPR20922	CPM20924	CPM20930	CP#20940	CPRNO950	CP#20960	CPENOPRO	CP#20990
	DEPLETION								
	SPRAY								
,	OXIDIZER	-			•				
į	27			٠.					
	14× 43×FUEL			TO RESEAT	SOLCID,NSEQ1	SO.CID.NSEO!			
9	260 FORESTON ASSESSED IN TAX ACCOUNTS	WellF(6,270)		U.O. STATE	ALSPRANE .	NI SPRANCE			
N EURA	FORMATI	Welle to	いたながられて	CALL PE	CALL PU	CALL PU	,	RETURN	020
() () ()	2002 2002	•	270						

U C S E SUBPROGRAM BLOCK

SUSSECUTION OF THE PROPERTY OF	TITMOTISE TROPASSION	PULSONIO
201100	TIME THE TRANSPORT OF THE STATE	PULS:050
	RPCIM, RPCMB, NSPACE, NIMALL, INITIC, INITIGG	PUL 50060
	IMITE, TSTART, TOFF, TLAST, COMB,	PUL. 50070
	. PIE: MCUMVF, MCUMVD, PVALF, F	PULS0072
	AVO, STOPM, IPPRT, ICRTP, TVC,	PUL SOC80
	RHOD, MGFGEN, HGDGEN, IVD,	PUL S0032
	IPER, ITHALL, TESBE, TESBO	PULS0084
マリモエの	SUMIMP, TRISE, TIRISE, TRISEZ, TOROP,	PUL50090
	PAIDTH, OFFI, OFFZ, PNS, TARUST, DXFRAC	PULS0092
	P. THALLM, SUMPC. SUMPCA, TITAIL, THALL,	PULS0094
というまないと	1/ MEMSF, VENSF, TEMSF, SUMSPF, MGFCUM, P	PULS0100
-	WENSO, VENSO, TENSO, SUMSPO, MGOCUM, MFSO, TG	PULSO102
ないままいと	IN COUNTH, COEHTC, TOWSS, OSBFSS, OSBOSS, TGAS	Put. So 120
	(121, TTMALL(6), TWF(12,6), TWD(12,	PULS0122
	2.cl, TIE(12.cl, TTRISE(12.c)	PULSO124
	ILZ, 61, TIDROPILZ, 61, TIDRP(12, 61, TPOVER(1)	PULS0126
	TESTALLIZACIA TIPOTALIZACIA TIPOTS(1246	PULS0128
LOCICAL		PUL 50400
■ 83450		PULS0450
CALL 6		PULS 0500
· 的复数金属的	TACOL S. T. C.	PULS0520
1964元元 馬	· 一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	PULS0530
		PULS0540
		PUL 50580
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्र इ २:		PUL 50601
からい 安美山	CITES.	PUL S0602
	SPACE L MISPAC	PULS0604
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	1) - 2779W1 a	
104401	一个中国美国的一个公司的公司	PULS0620
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PULS & SUBPROGRAM BLOCK

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PULSO652 PULSO673	PULSSEE	PUL. S0700	PUL SO 730	PUL	5) PULS0750	PUL SQ760	PULSO770	PUL. 50800	PUL S0820	PULS0824	PUL SOBZ6	PUL \$0828	PULSOBBO	PULSO832	PUL 50834	PUL SOB36	PUL50840	PLE 50842	PULS0843	PULS0844	PUL S0846	PULS0850	PUL S0852	PULSOEGO	PULS0862	PUL.S0864	PULS0866	PULSOBER	PUL 50870	PUL 50872	PUL 50890	WPULS0901	PULS0902
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VULSE SUBPROGRAM BLOCK

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PULSE SUBPROGRAM BLOCK

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	ING C		RY CONTROLS,	. ICR TP	110	110)	TiF	TCWSS,		ĩ.LF,	TCMSS.		= E1	= F10.	.DEHTH= E10.3,	S = E10.3	BF = E10.		•				-		-					* DIMPO	DIMP
	ND OPERAT	~	3HPRIMA	IPPRT	IISN =	ICRTP =	0	TAUIGC,		710,	TAUIGC,		₽ 8H 1	3, 8H T	3. BH CL	9 8H 1	F 8H 1													CIMPE	DIMPF
•	TIONS AN	IERR =	// 5X 6	* E	10, EH	I10, 8H	PAMB,	CCEHTC.			CEHTC.	u.	7	= F10.	C = E10.	N= E	# #							E13.2))						AWCHEM	AWCHAM
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SION 1	PULSE STWALL,	R. NTWAL!	E INP	Y X	= I10, 8H N	Ξ	۲,	• O	SS	•	VALC.	SBOSS.	PE1C.	E10.3,	9	-4	10.3	10.), I=) + I = 1	6E13°3	L(J),J=1;	(3),	1P6E13.3		TD 250	CHAM	LCHAM.
72 REVIS	ARY CONTROLS,	C)	α.	NSPACE	NSPACE=	IBOIL =	DIMS.	VVALF	OSEFSS,	DTMS.		•	11	DAMB II	VVALF =	COEMTO=	CSBFSS=	TESBC.=	*1.E-3	KOF		7	(PSPAC	PSPACE=	(1TWAL	(TTWAL	TIWALL		09 (0.	VOLC.	√ 0₹ €
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PAGE A -186

P U L S E SUBPROGRAM BLOCK

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PULN0914
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    E10.3,
               8H DIMPO = E10.3)
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                                                                                                                                                           17% 2HTR 10% 6HSPRAYF 8% 6HSPRAYD 14% 2HTR 10% 6HSPRAYF
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    AEXIT
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                                                                                                                                                                                                                                                                                                                                                    FMINF.
     8
E
                                                                                                                                                                                                                                                                                   FORMAT(4X 35H CCNTROL AND MISC. DATA FOR SUB IGN
                                                                                                                                  (TR(1), SPRAYF(1), SPRAYO(1), I=1,50)
= 1PE10.3, 8H LCHAM = E10.3,
M= E10.3, 8H DIMPF = E10.3;
                                                                                                                                                                                                                                                                                                                                                                                                                                    = E10.3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                  E10.3,
                                                                                                                                                                                                                                                                                                                                                                                                                        = E10.3;
                                                                              ECFVAC= 1PF10.30 BH WGCHAM= E10.3)
                                      FURMAT(1HO 4X 24HSTEADY-STATE PERFURMANCE )
                                                                                                                                              FORMAT(1HO 4% 26HSPRAY DEPLETION RATE TABLE
                                                                                                                                                                                                                                                                                                                                                    PMAXE.
                                                                                                                                                                                                                                 LITC
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                                                                                                                                                                                                                                                                                                  117
                                                                                                                                                                          8X 6HSPRAYO / (7x 3F14.4, 4x 3F14.4) )
                                                                                                                                                                                                                                                                                                                                                                                                                                    8H FMINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                8H FMING
                                                                                                                                                                                                                                            = 1PE10.3, 8H LITE
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                                                                                                                                                                                                                                                                                                                                                                  CINMS
                                                                                                      READ(5,30) (SPRAYF(I),I=1,50)
                                                                                                                     READ(5,30) (SPRAYO(I),I=1,50)
                                                                                                                                                                                                                                                                                                                                                                                                       FMIND.
                                                                                                                                                                                                                                                                                                                                                                                                                    = 1PE10.3,
                                                                                                                                                                                                                                                                                                                                                                                                                                    E10.3,
                                                   FCFVAC, WGCHAM
                                                                                                                                                                                                                               LITF,
                                                                 WRITE(6,14C) ECFVAC, WGCHAM
                                                                                                                                                                                                                                                                                                                                                                                           DPRT.
                                                                                                                                                                                                    IF(IIGN.LE.0) GD TD 410
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                                                                                                                                                                                                                  LITE,
                                                                                                                                                                                                                                                                                                              L1F,
                                                                                                                                                                                                                                                                                                                                        BH LIC
                                                                                           READ(5,30) (TR(I),I=1,50;
                                                                                                                                                                                                                                                                                                                                                     JPRT.
                                                                                                                                                                                                                                                                                                                          X 7HLF
                                                                                                                                                                                                                                                                                                   LIF
                                                                                                                                                                                                                                                                                                                                                                              DELTN = DTNMS*1.E-3
                                                                                                                                                                                                                                                                                                                                                                                                         FMAXU,
             8H AMCHAM=
                                                                                                                                                                                                                                                                                                                                                                                           WRITE(6,4C4) TMAX,
                                                                                                                                                                                                                             WRITF(6,26C) LIWF,
                                                                                                                                                                                                                                                                                                                                                                 FMAXO,
                                                                                                                                                                                                                  LIWES
VOLC
                                                                                                                                                                                                                                                                                                                                                   TMAX,
                                                                                                                                                                                                                                                                                                                                                                                                                                    EH FMAXF
                                                                                                                                                                                                                                                                                                                                                                                                                                                2X THFMAXO
                                                                                                                                                                                                                                                                                                                                                                                                                      404 FORMATION THIMAN
                                                                                                                                                                                                                                           26C FORMATICX THLIWE
                                                                                                                                                                                                                                                          SH LITC
                                                                                                                                                                                                                                                                       WPITF(6,394)
                                                                                                                                  WRITE(6,150)
                                                                                                                                                                                                                                                                                                            WRITE(6,400)
                          WRITE(6,132)
                                                                                                                                                                                                                 READ (5,30)
                                                                                                                                                                                                                                                                                                RFAD(5,20)
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130 FURMATE OH
                                                    READ(5,30)
                                                                               FORMAT 9H
                                                                                                                                                                                      WPITE16,61
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P U L S F SUBPRESRAM BLOCK

I G N PULN1970 PULN1980 PULN1990 PULN1995 PULN1995	VALIOOGO NIVEF, MIVEC, NIVDEF, VALIOOGO NIVEF, MIVEC, NIVDEF, VALIOIOO FO(9), TAVEO(9), VALIOIOO F, AIVDEF, VALIOIGO G, AIVDEF, VALIOIGO C, AIVDEC, VALIOIGO C, AIVDEC, VALIOIGO LINE, MANIFOLD, INJECTOR, VALIOZGO VALIOZG
INITIALIZATION SECTI CALL PINIT IF(IERR-EC.O) RETURN CALL EXIT STOP END	SUBRCUTINE VALINP COMMON /FULLYC/ CGEHTM, CDEHTC, TCWSS, GSBFSS, GS COMMON /FULLYC/ CGEHTM, CDEHTC, TCWSS, GSBFSS, GS CCMMON /FULLES/ TLE, TLC, VVALE, VVALE, NTVEC, NTVEC, NTVEC I NTVCEC, TTVEF(9), TAVEF(9), TAVEC(9), TAVEC(1), TELNIVEE(9), TAVEC(1), TELNIVEE(9), TAVEC(9), TAVEC(1), TELNIVEE(9), TAVEC(1), TELNIVEE(9), TAVEC(1), TA

P U L S E SUBPROGRAM BLOCK

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VALI0540 VALI0560 VALI0580 VALI0600	AL 1062 AL 1064 AL 1066	ALI068 ALI070 ALI072 ALI074	LI076 LI078 LI080 LI082	VALIO860 VALIO860 VALIO900 VALIO920 VALIO960 VALIO960	LI100 LI104 LI1104 LI113 LI114 LI118 LI118
	6F13.3) V V V V V V V V V V V V V V V V V V V	F) (6E13.3) (V) (F) (V) (F) (V) (V) (V) (V) (V) (V) (V) (V) (V) (V	6F13.3))	6E13.3)) 6E13.3)) 6E13.3)) 7 AIVEF, AOVDEF, AIVDEF, AIVEC 7 AIVEC, AOVDEF, AIVDEC 7 AIVEF, AOVDEF, AIVDEC 9 AIVEC, AOVDEC, AIVDEC	VF = E10.3, 6H A0VEF = E10.3, VDEF= E10.3, 6H A1VDEF= E10.3 VC = E10.3, 8H A0VED = E10.3, VDEO= E10.3, 8H A1VDEO= E10.3, F, VOLMO, LIF, LID F, VOLMO, LIF, LID C = E10.3, 6H VOLMF = E10.3, F = E10.3, 8H LIO = E10.3,
AD(5,30) (TAV AE(5,30) (TTV AD(5,30) (TAV ITE(6,170) (T	RMAT(2X 7HTTVEF = 1P6E13.3 / (9) ITE(6,172) (TAVEF(1),1=1,NTVEF RMAT(2X 7HTAVEF = 1P6E13.3 / (9)	######################################	(TTVEG(I), I=1,NTVE TVEG = 1P6E13.3 / ((TAVEG(I), I=1,NTVE AVEG = 1P6E13.3 / ((TTVPED(I), I=1,NTVE	OC FCRWAT(2X 7HTTVDEC= 1P6E13.3 / (9) WRITE(6,202) (TAVDEC(1),1=1,NTVD 02 FCRWAT(2X 7HTAVLEC= 1P6E13.3 / (9) RFAD(5,30) AVEF, CFVF, AOVE 1 WRITE(6,210) AVEF, CFVF, AOVE 1 AVEC, CFVF, AOVE	= 1PE10.3, 84 CF = E10.3, 84 AO = E10.3, 84 CF = E10.3, 84 CF - LLD, VOLM = 1PE10.3, 84 LL = E10.3, 84 LL

P U L S E SUBPROGRAM BLUCK

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PINIO010 PINIO120 PINIO120 PINIO140 PINIO140 PINIO220 PINIO240 PINIO240 PINIO240 PINIO380 PINIO380 PINIO460 PINIO460 PINIO460 PINIO460 PINIO460 PINIO460 PINIO460 PINIO460 PINIO660 PINIO660 PINIO660	PINIO600 PINIO620 PINIO640 PINIO660 PINIO700 PINIO710
	TRHOO(1 TPVAPO(AMB, NITTC, LAST, VALF, CRTP,
1 S T C	12), TTRLO(12), (12), TTRLO(12), TIME, TIME, SPACE, NTWALL, START, TOFF, CUMVF, WCUMVO, TOPW, IPPRT, SFGEN, WGOGEN
2), CDATE(2), CFSF, CFSO, PY * NMR, DUM1(FF) WDSSD, DUM4(1) ECSTR1, PNSSSSSSSSSSD, CM7D(45), TTC(18,3), 18), XMRM * TTC(18,3), 18), XMRM * TTC(18,3), 18), XMRM * TTC(18,3), 18), XMRM * TTC(18,3), 18), XMRM * TTC(18,3), 18), XMRM * TTC(18,3), TCC, VVALE, F(9), TAVEF(9), TCC, VVALE, AVDEF(9), TTVE AVDEF(9), TTVE AVDEF(9), TTVE AVDEF(9), TTVE AVDEF(9), TTVE * ALO, LLO, NF, ALO, LLO, VFSC, VCLO, VFSC, VCLO, VCLO,	RPG PIE PIE PIE AVE
THE BD/ AMAT (7 /FECOM/ C1. /SVV/ NP. NAP NTVC: T WDSSF: /CCM7/ GA; /CCM7/ GA; /TEL/ TWR (18) /TEL/ TR (18)	TTRLF TTPVF(TTPVF(TTPVF(NFINST ISPACE AVF, PHCF,
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P U L S E SUBPROGRAM BLOCK

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PINI0760
                                    PINI0820
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 CCEHTH, CDEHTC, TCWSS, QSBFSS, QSBDSS, TGASSS
                                                                                                  LLF, LLC, LMF, LMC, LCHAM, LC, LIF, LIC, LIMPF, LIMPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                   CXFPGP = WDSSC*QVAPD/(WDSSD*RVAPD+XMRM*WDSSF*RVAPF)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CESS = ECFVAC*(TCF1(LX)+SL*(TCF1(LX+1)-TCF1(LX)))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CFTWAC = TCF1(JX) + FA*(TCF1(JX+1)-TCF1(JX))
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                                                                                                                                                                                                                                                                                                                   = (EFS-TE: [K-1))/(TEPS(K)-TEPS(K-1))
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                                                                                                                                                   SECTI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CALL LOCFACIJK, CXFRGP, TOXFRP, NMR, LX, SL)
                                                                                                                                                                                                                                                                                                                                                                                                    TCF1(I) = TCF(I,I)
                  DELTN, LF,
                                                                                  LIMO, LITO, LIMPO
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                                                        一定のいかは大き河南東京・国内ののボーノをこののは、中、ネをみから
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Cars rates

Participant and

P U L S & GUEPROGRAM BLOCK

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U 1 S E SUBPROGRAM BLOCK

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CCOMB689
              COMB 690
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                                                                                                                                                                     PIE.LE.PAMB+0.002 FOR TERMINATING COMBUSTION
SUMPL+C.5*FACT*DTIME*(PNS1+PNS1*(1.-FACT)+PNS*FACT)
                                                                                                                                                                                                                                                                                                                                                                                                                             15,3PFE.1,1P2E12.4,0PF9.5,1P2E12.4,0P2F9.2, 1PE12.4
                                                                                                                                                                                                                                                                                                                                                                                                 WENSE, VENSE, VENSE, WGEXH, WGFCUM, WGDCUM, SUMSPF, SUMSPO
                                                                                                                                                         TO 200
                                                                                                                                                                                                                                                                                     MAXC(NTIME, INT(TVC/DTIME))
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                                                                                                                                                                                                   (SNd+ISNd)
                                                                                                                                                         .AND. PIF.LE.PAMB+0.002)
                                                                                                                                                                                                                                             EXTINGUISHED
                                                                                                                                                                                                                                                                                                                                                                                                                                                          .AND. IRETRN.EQ.0)
                                                                                                                                             WFSF
                               (ISNd-SNd)/(ISNd-EMVd+Xd) #
                                                                                                                                                                                                                .CR. TGASB.GE.TG)
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P U L S E SUBPRUGRAM BLOCK

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Activities (

TCOMB960 TCOMB962 TCOMB964	TCOMB970 TCOMB980 TCOMB982	TCOMB 986 TCOMB 986 TCOMB 988 TCOMB 990 TCOMB 991	TCOMB 993 TCOMB 994 TCOMB 995 TCOMB 998 TCOMB 998
IPPRT.GE MAT(50H0 1PE1	POVER = (PMAX-PNSSS)/PNSSS 190 MVF = WGFCUM PVD = WGGCUM	200 COMB = FALSE. IF(ITWALL.GT.1) GO TO 150 IRETRN = 1 NSPACE = ISPACE PSPACE(NSPACE) = (TIME-TOFF)*ICOO.	T (8)

SUBROUTINE GASGEN SETUP AND VAPO
/TBL/ TBLCD1(108), TTD1(18), TBLCD2(243), TDXFRP(18), XMRMGASG0022
/SVV/ NP. NAP. NMR.
SVVD3(6), RVAI
/ICN4/ ICN4D(7), TG
/CPM2C/ TR(50), S
/IGN5X/ MAXJF, WDF(
/IGN6X/ MAXJO, WDOC
/IGNGGF/ WENSF, VENSF, TENSF, SUMSPF, WGFCUM, WFSF,
WENSO. VEN
/PCCM1/ PCIDUM(20), TAUIGN
/PULCOM/ N, IIGN, DTIME, TIME, TAMB, PBARSS,
RPCIN, RP

P U L S E SUBPROGRAM BLOCK

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GA SG0139
                                                                                                                                                                                                                                                                                                           GASG0140
                                                                                                                                                                                                                                                                                                                                                                                    GASG0160
GASG0062
          GAS60063
                      CASG0064
                                   GASG0065
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                                                                                   GASG0075
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                                                            GASC0068
                                                                        GA SG0074
                                                                                                GASG0076
                                                                                                            GASC0077
                                                                                                                                                                                                                                                                                                                         GASG0141
                                                                                                                                                                                                                                                                                                                                                                                                             GASG0171
                                  TAUIGES
            PVALC:
                                                                                               EVAPOC, DTR, FACT, TFMAX,
COMB.
                       TVC.
                                                                                                          DMNBF, DMNBO, VEMAXE, VEMAXO, TRESE, TRESO, TIMPFI, TIMPOL, DTMS
                                                                                   TIMPE(500), TIMPO(500), WENSFI, WENSOI, NNN,
                                                                       WEFI(500), WEDI(500), WEF(500), WED(500),
           PVALF,
                       ICRTP,
TLAST
                                    TVC.
                                                                                                                                                                                      i
                                                                                                                                                                                    ARE MILLISECONDS
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                                   WGCGEN,
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TOFF,
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R
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R
                                                             DUMPF(112), DIMPF, DIMPO
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TSTART,
            WCUMVF
                                    WGFGFN,
                        STDPW,
                                                                                                                                                                                                                                                                                                                                                                                                             NON BURNING DELTA MASS VAPORIZATION
                                                                                                                                                                                                                                                                                                                                                                                                                                     = FACT*AMAX1(5.E-4, 1.-SPRAYF(2)
                                                                                                MINE, MINO, EVAPFC,
                                                                                                                                                                                    UNITS OF TR, TRES, TRESE AND TRESO
INITE
                                                 ITWALL
                                  RHOC.
                       AVO.
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            ISPACE, PIE,
                                                                                                                                                 NOINC, BIG/ 500, 1.F+20/
                                                                                                                                                                                                                                    AT STMT
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NFIRST
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                                                                        /CGASG/
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SUBPROGRAM BLOCK

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	PERFECT CARONIA FOR A CAR	
	MAX W FLUALL VOINC FULLER	20018
	MAXE H DIMPEZELS. ATEMAX	2601
	MAXO = DIMPO/(12.*TFEAX)	5601
	ESF = YOF (EVAPFC, SPRAWF, TR, 50, 2	SG01
	ESC = YOFIEVAPOC, SPRAYO, TR, 50,	601
	PF1 = RIC	5601
	DIa = IUdW	-
	UICN = TAUTGC	N
10	(INITEC.	6ASG0206
	(NI-CE-NUN	GASG0208
	C 14 !=	CASG0210
	f - > = 1	GASG0212
	Note - I =	GASG0214
	F(K.LE.	CASC0216
	EFI(K) = ADF(J)	GASG0220
	RES = TRESP*FLOAT(J)/FLOAT(JMAXF(CASG0230
	EF(K) = YOF(TRES,TR	CASG0240
4	TIMPF(K) = TIME - 1.5*DTIME - TRES*1.E-	GAS60250
		GASG0260
	0 16 J=	G. SG0270
	 2 	GASG0272
	WAN - I =	CASG0274
	F(K.LE.O	GASG0276
	ECI(K) = MCO(J)	GASG0280
	RES = TRESD*FLO	GASG0290
	FO(K) # YOF(TROS,TR,SPRAY	CASC0300
16	TIMPO(K) = TIME - 1.5*DTIME - TRES*1.E-	GASG0310
	II C	S60
		GAS60324
a, ~	ENS = 1.	9
	F(IPER.GF.6 .OR. (WENS	260
	# BUNSO/ (MENSO +XERE#Y	260
	OXF = ABS(OXFENS-CXF	S60
	OXF = OXFRSS	
	F (DXFENS • G	6035

PAGE A -201

U L S E SUBPROGRAM BLOCK

	R = DCXF/R	GAS60354	
	IF (DDR_LF_0.02)	GASC0356	
H	F(DOR, LE.0.07) FACENS = 1	6AS60358	
-	FIDOR.CT.0.07) FACENS = 0	GASG0359	
HGF	GT 2 10.	GAS60360	
#GC	SEN = 0.	CAS60370	
としょ	SF = FACFNS	GASG0380	
743	SCRF	GAS60382	
S	177 "	CASC0404	
IF (VI.GE.N	GASG0408	
IF (WI-LT-1) R	GASG0410	
H	0 4 2	GAS60412	
-	FINITEG.EC	GASG0414	
S L	I(NS) = ME	GASG0430	
WE	٦	GASC0440	
_	F(AVF.E0.0.) 60 TO 21	GASG0448	
111	PF(NS) = TIME -	GASG0450	
S O	10.22	GASG0452	
_	I = (SN) dewI	GASG0454	
U.I	SUMSPF+WENSF1.LE.O.)	GASC0460	
300	SPF = 0.	CASC0464	
C.	3 40 J=MIN	GASG0470	
7	IS ENSEMBE	GASG0480	
¥	NNN - C =	GASG0490	
	F(K.1	GAS60500	
¥	IS ENSEMBLE	GAS60510	
	BALL = SAO	GAS60520	
_	F(TRES.LE.O.	GASG0530	
٠,	CLD & WEF(K)	GAS60540	
	F (MOLD . LF.	GASG0550	
	DC = MINIC	CASC0570	
u	= (TRES-TI	GASG0580	
V 1	PRBY = AMA	CASC0590	
Z	EF(K) = SP	GASG0600	
△	CC = MULD	26061	
	Ü,	GASG0612	

P U L S E SUBPROGRAM BLOCK

) NEF	CASC0620	
SPRAY-EVAPFC	CASG0630	
IF(WFF(K).GT.O.G) IMIN = 1	GASG0640	
IF(IMIN.FG.O) MINF = J	CAS60650	
CONTINUE	CASC0660	
CONTINUE	GASG0670	
11	CASC0672	
IF[MINF+Ni]NC.GT.N] GR TO 50	GASG0680	
K F CINT - NNN	CASC0690	
IF(K.LF.O) K = K + NOINC	GASG0700	
I BURF(X)/SEFECT FVAPFC	GASC0710	
	GASG0714	
TE(6,44)	GAS60720	
JFFICIENT SPRAY STORAGE	GASGENIGASG0730	
Y FRSEMBI	SPRAY= GASG0740	
	CASG0750	
IF(<cumit.eq.30) td="" write(6,46)<=""><td>GASG0752</td><td></td></cumit.eq.30)>	GASG0752	
FORMAT(42HO* GASGEN DIAGNOSTIC NOW SUPPRESSED * * *)	GASG0754	
AGFORN # WIFGEN + WEF(K) - WEFI(K) *EVAPFC	GASC0760	
	GASG0770	
	CAS60780	
	GAS60790	
DIFUSTIN	GASG0792	
4 (5	CASC0798	
CSNak = C	GASG0802	
VO.FC.O.1 GC	GASG0804	
4c) = TIME - 1.5+	_	
52	GASG0810	
Ć)	CASC0812	
0 4	CASC0816	
IF(SUMSPINENSII, LE.O.) GO TO 72	GASG0820	
. O #	GASC0822	
, د	CASC0830	
7	CASG0840	
HTMP REPORT OF THE THE POSITION	CROCTOAT	

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P U L S E SUBPROCRAM BLOCK

		6A56U86U
	TINANILLIO.I	CA SG0870
	OFF = AFC	CASGOBBO
	BITTOFIE	CAS60890
24	LOC = #INI(TRES/OTR+1.,49.1)	GASGC910
	071100	CAS60920
	EVAPOC.	GASG0930
56	(X) MOUNEY	GASG0940
	(K)	GAS60950
	0	CASC0952
	000 + N	GASG0954
	(APDC) WED(K) = 0.	GA SG0960
	S) + 3	GAS60970
		GASG0980
	IF(IMIN.FC.O) MINC = J	GASG0990
u	CONTINUE	GASG10 C0
O	CONTINUE	GASG1010
7	N H CWIN (O'CH'NIRI) HI	GASG1012
O	DIAC CT.NY	GASG1020
		6ASG1030
	<i>₹</i> • ¥	CASG1040
		64561050
	IT = KOUNT + 1	GASC1054
	CUMT.LF.301 WRIT	GAS61060
	OUNT.FC.37) WRITE(6,46)	GASG1062
	TAN THE SECTION A NEW	GASG1070
	7 H	CA 5G1080
		GASG1090
C.	de .re. IICN.6E.1)	GASG1100
	F(MENSF.CT.O.) GO ID 9	64561110
	ISOUTH BOY	GAS61112
	かかい	64561114
26	DEL E ARIZICALROPI, IL	GASG1120
	し、ことのというは	GASG1130
		GASG1132
	0 C. C.	GASG1134

VULSE SUBPRUGRAM BLOCK

\$	DOMINISTMY a TOOM!	56114
(E)	DOWN THUMBILL TAND	GASG1246
	TIME .LT . TIMPIP	GASG1150
	TIEN-LE11 TAUIGN	GASG1170
	* TENDION + TAUISN*	GAS61180
	(MCFCUM.LF.0.) GO TO 99	GASG1181
	# YOF (%COCCUS/ 1%CCC UM+XMRH&KGFCUM) . TOXF	CAS61182
	.AVD. PIE.GI.PAMP+0.002) GG TC 10	GASG1184
	E.LE.PAMR+0.002 FOR NO COMBUSTION IS AN	CAS61185
0	TIEM + DILEM	GASG1186
	CO 400 CO	GASG1188
ن ۲	Y 生物化 中野 中国	6ASG1190
	. •	CASC1200
	14 9 130	GASG1204
	Is a Kod	GAS61206
	T# 66 + 230	GASG1220
110	其田其	GASG1230
		G4SG1280
200	いてが天皇	SAS62004
	20.3	GAS62006
	. 29	GASG2008
		SG
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	ALUMA TENEROR	
		FEFDUOZO
	ED/ TLF, TLO, WALF, WALC, NIVEF, NIVED,	FEED0120
	NIVOFO, TIVEFIGUE TAVEFIGUE, IT	FEE D0122
	0) ##QV##	FEEDO124
	AVER CEVE, ACVEF, AIVEF, ACVO	PEFU0126
	E CEVES ACVEDS AIVEDS ACVO	FEEDOIZ8
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	APCIN, APCNB, NSPACE, NTWALL, INITIC, INITEG	L :
	T. INITE, TSTART, TOFF, TL	FEED0154

P U L S E SUBPROGRAM BLOCK

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PULSE SUBPROGRAM BLOCK

		FEED0530
	GO TO 60	FFFD0532
Ü		FEED0540
	v	FEED0560
U	BURL VALVE	FEFD0570
	1000.001	FEED0580
	1 idial	FEED0600
		FEED0610
Ų		FEED0620
	ed legites. It tends on to too	FEED0640
	2010	FFED0642
	5	FEFD0644
J	1 BATTA BELLEVA	FEED0650
	1 基础等	FEFD0660
	-	FEED0660
	CHAY	FEED0690
	601 61 60	FEED0692
U		FFED0700
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Ü	OKIOISES ATTACT IS CLOSING.	FEED0730
	T = 1000, +(Time - Tv00)	FEED0740
	AND # YOF (T. TIVOFO, TAVOED, WIVDEC, 2) *AVED	FEED0760
	AVO & AMAKETANDOD	FEEDC770
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_	100 IF(*VF.GT.O90. AVC.GT.O.) CALL FLOW	FEEDOSOO
U		FEFDO820
	_	FEEDO830
	INITIOACE, FO. 1 . AND. TIME.LY.TVC) RETURN	FFED0834
	Man	FEED0836
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-	PIE, WCUMVE, KCUMVO, PVALF, PVALO, AVF, AVO	FLCW0102
. C e	4. IPFRIT ACPTP, TVC, RHOF, RHOO	FLOW0104
ድኔ	ACFORD, WOODER, TVO	FLOW0106
いいきょうし	ED/ 11.F. 110, CDSM(78),	FLOWOILS
×	, AUVEF, AIVEF, AOVEEF, AIVDEF,	FLOW0118
3 *	. CSVC. ACVEC, AIVED, ACVDEC, AIVDEC.	FLCW0120
	F. LLF. OFLF. ALTO LLC, RFLO.	FLCW0122
r.	F. LEF. GFEF AMES LEO. RFEO.	FLDW0124
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*	e, Olmpo, VPSV, VPSC, ISCIL, FPS,	FLCW0128
ly" e	ACEMBE VIEW VICE VOLUCE VIC	FLCW0130
さいまないし	LORY WENSE, VENSE, TENSE, SUMSPE, MCFCUM, MFSF,	FLOW0160
	MENSE, PERSO, TENSO, SUMSPO, MCOCUM, MFSC, TCAS	FLCW0102
140	MF, TFF, LLO, LMC, LID	FLOWOZEO
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*	マンスノコール・11111	FLC#0420
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- 1./AVEF##21
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PACE 4 -209

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PAGE & -211

PULSE SUBERDGRAM BLOCK

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FLOW2762
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= RHOO*(LLO*XLO/ALO + LHO*XMO/AMO + LIO*XIO/SAID)
                                                                                                                                                                                                                            (IPPRT.GE.3) WRITE(6,50) X,Y,A,B,C,QDOTCI,QDOTC2
QBARC = (QDOTC1 + QDCTD2)*DTIME/2.
                                                 R FED * XMC / A MC * 42
                                                                                                                                                                                                                                                                                                                                           WCUMVD = WCUMVO + OBARD*RHDC/1728.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WCUMVG = WCUMVO + OBARO*RHOO/1728.
                                                                                                                                              - PVALO
                                                                                + YIG
                                                                                                                                                                                            QDQTQ2 = AMAX1(0., QDGTQ2)
                                                                                ≻
                                                                                                                                              + PIF
                                                                                                                                                                                                                                                                                                           OPMIC2 = 2.*OBARC/UTIME - ODCTOI
                                                                                                              * * (53372F0.=32.17/#2*4*12**4) *
                                              + SIGNO*(PFLO*XLO/ALO*+2 +
                                                              RFID#XID/SAID##21
                                                                               IF (XIO.GT.O. .AND. QDCTD2.GE.O.)
                                                                                                                                            GDUTO1*(A*ODCTO1 - X/DTIME)
                                (667160.=32.174*12**4) #
                                                                                                                                                                                                                                                                            GD TC 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTAL/(IV. *SAID#DTIME)
                                                                                                                                                                             QUOTO2 = CUAD(A,8,C,QOCTO2)
IF(PVALC,GT,PIE) QDOTO2
                                                                                                                                                                                                                                                                                                                                                                                                                           AMAX 1 (O. . VOLO-VFSO)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SC TD 340
                                                                                                                             + 2.*A*QDCTC1
                                                                                                                                                                                                                                                                                                                                                                                                                                                          = CINJ#RHCC/1728.
                                                                                                                                                                                                                                                                                                                                                                                                                                            = AMINI(VESC, VOLO)
                                                                                                                                                                                                                                                            260,390,320
                                                                                                                                                                                                                                                                                                                          + OBARC
                                                                                                                                                                                                                                                                                                                                                                                                             = VCLC1 + OBARC
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                                                                                             = PHDC*Y/5337280
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                667160
                                                                                                                                                                                                                            IF (IPPRT.GE.3)
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P U L S E SUBPROGRAM BLOCK

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FLOW3260
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                                                                                                                                                                                                                                                                                                             XLF+ XMF+ XIF+ WCUMVF+
                                                                                                                                                                                                                                                                                                                          XLD, XMD, XID, WCUMVD.
                                                                                                                                                                                                                                                                                                                                                      MARSHA
                                                                                                                                                                                                                                                                                                                                        *LF= F6.3, 5H XMF= F6.3, 5H XIF= F6.3,
                                                                                                                                                                                                                                                                                                                                                                     F6.39
                                                                                                                                                                                                                                                                                                                                                                                    E10.3, 6H WFSO=
                                                       XMO = AMINI(1., (VOLC - VLO)/VOLMO)
                                                                                     XIG = \{VGLO - VLO - VOLMG\}/VIO
                                                                                                                                                                                                                                                                                                                                                        F10.3, 6H
                                                                                                                                                                                                                                                                                                                                                                   XMO= F6.3, 5H XIO=
                                                                                                  CO TO 370
                                                                                                                                                             084R5 = VLC + VCLMO + 0.001*VIO - VOLC1
                                                                                                                                                                                                                                                                                                                                                      8H WCUMVF= 1PE12.5, 5H AVF=
                                                                                                                                                                                                                                                                                                                                                                                   8H WCUMVC= IPF12,5, 5H AVC=
                                                                                                                                                                                                     WCUMVS = WCUMVC + QBARC*RHDD/1728.
QDGTQ2 = QDGTG1*SAIO/AMG
                                                                                                   . AND. XIO.GT.O.)
                                                                                                                                                                                                                                                                                                           [F(1PPRT.GF.2) 'RRITE(6,410)
             CO TO 360
                                                                                                                                                                                                                                                                                                                                                                     4X 4HXL0= 0PF6.3, 5H
                          XLO = AMINI(1., VOLO/VLO)
                                                                                                                                                                                                                                                                             WFSO = VOLC#PHDD/1728.
                                                                                                                                                                          VOLC = VOLCA + QBARD
              YFIGBARD.EG.O.)
                                                                                    IF(XMC.EQ.1.)
                                                                                                                                                                                                                                                                GDOTO1 = OPOTG2
                                                       15 (XLC.EQ.1.)
                                                                                                  IF(IXIO.EQ.1
                                                                      XIC = 0.0
                                           0.0 =
                                                                                                                                                                                           XIO = 0.001
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ULS E SUBPROGRAM BLOCK

SUBRCUTINE	JIOS	CILOOI
NOW WOD	YC/ COEHTH, COEHTC, TGMSS, QSBFSS,	EDIL0060
COMMON	9), MIVE, BOUM(5), MIVO, TXF, TXO, LMBDEF ! MRDE	DILOOB
$\mathbf{\circ}$	DM/ N. IIGN. DTIME, TIME, TAMB, EDUM(8), INIT	OICOIO
~	FOUM(5), PIE, GDUM(4), AVF, AVC	CILO10
	. STDPW, IPPRT, GDUMI(IC), TFSBF, TFSBO	CIFOIO
COMMOD	FOZ TLF, TLC, CDUM(96), AMF, DI	OILO12
•	, LIF, RFIF, SAIC, LIO, RFIC, CFIF, C	CI1012
7	F. DIMPO, VESE, VESC	GILUIZ
COMMON	/ TDFPF, CPLF, TDFPC, CPLO, NRHOF, NRHOO,	CIL014
~	TTRLFil2% TRHOF(12), TTRLG(12), TRHOD(12	CILO14
NUX XUU	VENSF, TENSF, SUMSP	011016
	NSO+ VENSO+ TENSO+ SUMSP	CIL016
2	TGAS, RLF, RLD	CILOIS
COMMOD	/PCCMI/ PCDUM(12	SILO17
DIMENSIC) Ya No	011030
REAL		CIL032
		CIL032
IF(INITB,	8.NF.1) 60 TO 100	DILO33
INIT9 =	င	CILOBB
		OIL034
TESE		GIL035
XVWLL	= AMAX1(TTRLF(1), TTRLF(NRHOF	CILO35
1 T T T	YOF (TESF, TTRLE, T	CILO35
u. Viu.	- PFNCTF(TESF)	011035
A HÜVE	= 144.*PFSF*MTVF/(1545.*TFS	011036
4d 4 Ta	= YCF(TDFPF,TTQLF	CIL036
DVFP	= PENCTE(TOPPE	011036
XVF =	0.0	CILO37
XVPF	اد الادران الادران	011037
u,	SCRT(1./(CFIF	CILO37
77.2	18 # 2#32.174#12	011037
لل . ایذیا	- CDF*SAIF*SQQ	011038
7.5.7	C	CYL038
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P U L S F SUBPROGRAM BLOCK

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                                                                                                                                                                                                                                                                                                                                                                                 SCLUTION FOR FUEL FEED-SYSTEM PARAMETERS, USING RUNGE-KUTTA 4TH
                                                                                                                                                                                                                                                                                                                                      WESF = RL*VFSF/1728.
                                                                                                                                                                                                                       = 258F55*(1.-0.95*XVF)*AMAX1(0.,(TFS-1)/(TFSBF-TLF))
                                                                                                                                                                                                       TES = TAMP + (TESPE-TAMB)*(TWALL2-TAMB)/(TCWSS-TAMB)
                                                                                                                                                                                                                                                                                                                                                                                                                               RK(I) = (QSBF/WFSF - LMBDEF#XVPF) +DTIME/CPLF
                                                                                                                                                                                                                                                                                                                                 IF(PL.LT.1728.*KESF/VESF .AND. PIE.GT.P)
                                                                                                                          CDO = SERT(1./(CFIO*(1.-(SAID/AMQ)**2)))
                                                                                                                                                                           60 TO 350
                                                           = YOF(IDFPG,TIRLC,IRHCO,NRHOC,2)
 AMAX1(TTRLO(1), TTRLO(NRHOO))
                                             # 164.4PFSC#MTVC/(1545.4TFSO)
               VOF (TESO, TIRLC, TRHOO, NRHOO, 2)
                                                                                                                                         = CDO*SAID#SQRT(772.18/VFSO)
                                                                                                                                                                                                                                                                                                                   = YOF (T, TIPLE, TRHCF, NRHOF, 2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                + C*&K(I)
                                                                                                                                                                                                                                                                                                                                                                                               DRIVER SCHEME FOR TEMPERATURE.
                                                                                                                                                                                                                                      + CSOFFDTIME/(CPLF#WFSF)
                                                                                                                                                                        IF(AVF.GT.O. .OR. WESF.LE.O.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          = 146.*P#MTVF/(1545.*T)
                                                                             = PENCTO(TOFPC)
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U L S F SUBPROGRAM BLCCK

= YCF(I,TIRLF,TRHOF,NRHOF,2)		011072
THE (SORT(WISE) - COFFERCADIIMER NO - FOR I BESTELLED	SGRT((P-PIE)/4.))**2	11.074
P H COEFFESSET (MA (P-PIR) MA 1720.		BUIL0780
or (awp-XVF#QVp-(IXVF)#(RL-RL	FII/DTIME / (RV-RL)	BOILOBOO
[1.LF.3] RK(I+1) = DTIME*1058F/	BDEF#XVP)/CPLF	80110820
[1.EG.3] I = TFSF + (RK(1)+2.*P	**RK(3)+RK(4))/6.	BOIL0840
o promised the different		BOIL0850
ر د		09801179
		BOLLUSES
T R TOROF		601L0870 601L0872
E & REFPE		B01L0874
HE CORP		BOIL0875
AFT - CAF		BOIL0378
B AMAXI (DVFDF, F		ECIL0880
V = 144. *P* 4TVF/		BOIL0882
VP = (RV-RHOVF)/DTIME		BUILO884
MP = -COFFFACOT (WA(P-P)		BOILO886
Mo) u dA		B0110890
!		B01L0920
		BDIL0940
I		BOIL0960
a>×		BCIL0980
41 - 1728 .** VFSF)		BOIL1000
IF(%/F.LI.0.99) CO TC 300		BOIL 1002
		80IL1004
は 1 1 1 1 1 1 1 1 1 1 1 1 1		B0111006
LULIA I MA		BOILIO10
ルボロチルへメート、まかしかいましょうのじょうま		BOIL1012
TI-TXOE PROME		BCIL1014
LISPUR + LIGHTON H LIGHTON		BCIL1016
0. 0		BCIL1020
"CT.C.C. VPUSH = 2. #VESF# (WF1-WF)/(12.*DTIME*	BC1L1022
		BOIL1024
TENCH & (1 + TESF)/2.		B01L1030

P U L S E SUBPROCRAM BLGCK

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                                                                                                                                                                                                                                      WFSC = RL+VFSC/1728.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       + (RK(1)+2.*RK(2)+2.*RK(3)+RK(4)1/6.
                                                                                                         E 089055*(1.-0.95*XVD)*AMAX1(0.,(TFS-T)/(TFSB0-TLO))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RK(I+1) = DTIMF*(QSBQ/W - LMBDEO*XVP)/CPLO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (480-xxceavp-(1.-xva)*(RL-RLO1)/DTIME) / (RV-RL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               H R (SORT(MESC) - COFFC*C*DTIME*SQRT((P-PIE)/4.))**2
                                                                                       = TAME + (TESEO-TAME)*(TWALL2-TAME)/(TCWSS-TAME)
                                                                                                                                                                                                                                                                                            . SOLUTION FOR CHILIZER FFED-SYSTEM PARAMETERS.
                                                                                                                                                                                                                                                                                                                               BK(I) = (GSEC/MESO - LMEDEC#XVPC) + DITME/CPLC
                                                                                                                                                                                                                                     IFFRL.LT.1729. ** SC/VFSD . AND. PIE.GT.P)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -COEFF-508T (##[0-PIE] ##1728./VFSO
                                                       GC TO 550
                                                                                                                                                                                                                     E YORIT, TIRLE, TRHEE, NRHOP, 2)
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TFSF= OPF7,1,6H XVF= F7,4,
                                                                                                                                                                                                                                                                                                                                                                                                              XVF= F7.4.
                                                                                                                                                                                                                                                                                                                                                                                                                            XVO= F7.4)
                                                                                                                                                                                                                                                                                                                     = 2.*VFSC*(WC1-WFSC)/(12.*DTIME*
                                                                                                                                                                                                                                                                                                                                                                                                                            TFSD= 0PF7.1,6H
                                                                                                                   -COEFD#SC#T(%#(P-P1E))#1728*/VFSC
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· ·	MINO. TKF. TKC. LMPDEF. LMBDEO.	PPP.T0040
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· ·	FSTSS FCSSS FCFSS FSS SIMPSS	, PPR TOO72
• F.		PPRT0074
¥0330 €	FOR THE THE WVALF, WYALD, NIVEF,	PPRT0090
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	F(4), TAVORF(9), TIVDEC(9), TAVDEC(9),	PPRT0110
• F	CEVE. ADVER. AIVER. ADVDER. AIVDER.	PPR T0120
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` 4;	ATT SAID-LID. RFIC. CFI	PPRT0160
	SAU TEOLE CROSS TROILS HPS.	PPPT0170
٠ ٠٠	CIA CETUA OTA BIA BALVA	PPFT0180
* 1 38 38 5 5	IIGN, DTIME, TIME,	PPRT0190
	PPCIN, RPCNE, NCPACE, NTMALL, NITTC, IN	PPP T0200
• •	I. INITE. TSTAPT, TOFF, TLAST, CO	PPRT0210
	F. PIE. WCUMNE, WCUMVO, PVALF, PV	PPRT0220
4	AVC. STOPW	PPR T0230
* (3 %)	P. TRISE, TIRICE, 'RISEZ, TD	PPP T0 240
:	PAINTH, OFFI, OFFI, 115, THRUST, OXFRAC	PPRT0250
• ^	2. THALLM. SUMPC. SUPPCA, TITAIL, TWALL,	PPRT0260
* US & UU	A/ CCAAT(36), NSEC, ISEC, NPS,	FPRTC270
1	CEERS CHEDS CEFCS	PPRT0272
TVEF	FOVALF	PPP T0310
	717	PPRT0320
4	00°61808	PPRT0330

TYTEC	PPRT0360
F & YOF [0,0001,14VDF,TTVDF,NTVDFF,2] F & YOF [0,0001,14VDE0,1TVDE0,NTVED,2] F & TVEO	
F TYES TAGES TA	PPRT037
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** WCHWACKCOWATE ** ** ** ** ** ** ** ** ** ** ** ** **	PP81043
P = CUMIUP/WCLUMY LO = 47 **CUMPCROPS 174/WCUMY LO = 65 155 **CUMPCROMPASS 155 **CUMPCROPS 1	PPRT044
THE RESISTENCE THANKOWN TO BE SECONDARY TO STREET THE STREET STANDERS SECONDARY SECOND	PPRT045
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PWATILM 45x 19MPULSE PERFORMANCE / 42x 19HDUTY CYCLE SEQUENCE / 40x 94PULSE 40. 1° //) CT.01 WRITE (6.100) PMATILM 45x 16MPULSE PERFORMANCE / 43x 23HSTANDARD PULSE SEGENTION 45x 16MPURE INLET PRESSUR CT.01 WRITE (6.100) PMATILM 45x 16MPULSE PERFORMANCE / 43x 23HSTANDARD PULSE SEGENTION 15MPURE 11 PRESSUR THE ATT (10) TETART, PVALE, PWIDTH, PVALO, TLF ATT (10) TETART, PVALE, PWIDTH, PVALO, TLF ATT (10) TETART, PVALE, PWIDTH, PVALO, TLF TEWPERATURE AT COPESSURE 13X 4HMSFC3PF15.3, 4X19HFUEL INLET PRESSUR TEWPERATURE 8Y 1HR F18.1 } TEWPERATURE 8Y 1HR TO ATT (10) PMSSS, ATT CSTRSS, PAMB, ECSSS, OFFI ATTA 12MSTELSY-STATE 39X 22HOXID INLET TEMPERATURE 8X 1HP ATTA 12MSTELSY-STATE 39X 22HOXID INLET TEMPERATURE 8X 1HP ATTA 14X 5HST 14 E14.4 / 4X 6HTHRUST 24X 6HFT/SEC OPFI3.1 4X ACTION FOR SUMPLY AT COPPERIOR PULSE NASE OPFIS.1 STATE 14X	PP&T048
SON SON SHOULSE NO. 15 //) COT.G) WAIT(6.100) PMAT(101 407 16MPHLSE PERFORMANCE / 43X 23MSTANDARD PULSE SEGE(5.110) TSTART, PVALF, PWIDTM, PVALO, TLF T(6.110) TSTART, PVALF, PWIDTM, PVALO, TLF ATT TWENTY AT CV-SIGNAL 13X 4HMSFC3PF15.3,4X19HFUEL INLET PRESSUR ATT THE AT 19M-XIC INLET PRESSURE11X 4HPSIA F15.2 / 57X 22HFUEL IN TEMPERATURE BY 1HR F18.1 TEMPERATURE BY 1HR F18.1 TEMPERATURE BY 1HR F18.1 TEMPERATURE BY 1HR F18.1 AT (A Y 12MST 12D STATE 39X 22HOXIC INLET TEMPERATURE BY 1HP AT (A Y 12MST 12D STATE 39X 22HOXIC INLET TEMPERATURE BY 1HP AT (A Y 12MST 12D STATE 39X 22HOXIC INLET TEMPERATURE BY 1HP AT (A Y 12MST 12D STATE 39X 22HOXIC INLET TEMPERATURE BY 1HP AT (A Y 12MST 12D STATE 39X 22HOXIC INCESTING PULSE BY 1HP AT (A Y 24HOFF-PERIOC PRECEDING PULSE BSECOPF15.1) ELLA C STATE EY: PRESSURE 10X 4HPSIA 12X ENERGY ESIS ELLA C STATE EY: PRESSURE 10X 4HPSIA 12X ENERGY ESIS ELLA C STATE EY: PRESSURE 10X 4HPSIA 12X ENERGY ESIS ELLA C STATE EY: PRESSURE 10X 4HPSIA 12X ENERGY ESIS ELLA C STATE EY: PRESSURE 10X 4HPSIA 12X ENERGY ESIS ELLA C STATE EY: PRESSURE 10X 4HPSIA 12X ENERGY ESIS ELLA C STATE EY: PRESSURE 10X 4HPSIA 12X ENERGY ESIS ELLA C STATE EY: PRESSURE 10X 4HPSIA 12X ENERGY EN	SEQUENC
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PMAT(INI 46% 1849HLSE PERFORMANCE / 43% 23HSTANDARD PULSE SEGE(4,11%) ISTART, PVALE, PWIDTM, PVALO, TLF ATT ATT APPLIANCE AT CW-SIGNAL 13% 48MSFC3PF15,3,4X19HFUFL INLET PRESSUR AMPSILOFF15,2/ AX ZEMCURATION (ON-SIG TO OFF-SIG) 2% 44MSEC AND STAGE ATTOR OF ATT PRESSUREILY 44PSIA F15,2 / 57% 22HFUFL INTRAPECTORS ATTORNEY ATTOR OF ATTORNEY PRESSUREILY 44PSIA F15,2 / 57% 22HFUFL INTRAPECTORS ATTORNEY ATTORNEY ATTORNEY ATTORNEY ATTORNEY ATTORNEY ATTORNEY ATTORNO PRESSURE 14% 44MPSIA 1PEIS,4,4 / 1640MOZZLE EXAMPSIA 19% 54% ATTORNO ATTORNEY ATTORNEY ATTORNO ATTORNEY ATTORN	PPRTO490
F(5,110) TSTART, PVALE, PWIDTM, PVALC, TLE ATT TOWNING AT CW-SIGNAL 13X 4MMSFC3PF15.3,4X19HFUEL INLET PRESSUR AMPSILGERIS.27 WX 26MCURATION (ON-SIG TO OFF-SIG) 2X 4HMSEC AMPSILGERIS.27 WX 26MCURATION (ON-SIG TO OFF-SIG) 2X 4HMSEC AT 4X 19MMXFG RX 1MR F18.1 } TEMBERGITURE BX 1MP TEMBERGITURE RX 1MM F18.2 AX 34MFR F16.1 AX 1MMHROAT AR AN 5MSG TW 514.4 / 4X 6MC-STAR 24X 6MFT/SEC OPF13.1 4X MC72LE EVIT RRESSURE 10X 4MPSIA 1PF15.4 / 6X 10MFFFICIENCY 18X TEMPERGIC.2, 4X 34MOFF-PERIOC PRECEDING PULSE MSEC OPF15.1 } TOWNING RATHER RA	PULSE SEC
F(6,115) TSTART, PVALE, PHIDTM, PVALO, TERMINET RESSURTE AT CW-SIGNAL 13X 44MSEC3PF15.3,4X19HFUEL INLET PRESSURTE AMPSILGERIS.2/ **X ZEMEURATION (ON-SIG TO OFF-SIG) 2X 44MSEC4MPSILGERIS.2/ **X ZEMEURATION (ON-SIG TO OFF-SIG) 2X 44MSEC 15 4 194 194 195 197 197 197 197 198 198 198 198 198 198 198 198 198 198	
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THIME AT CHESSOAL 13X 44MSEC3PE15.3,4X19HEUEL INLET PRESSUR 4MPS1LOFR15.2/ MX ZEHCURATION (ON-SIG TO OFF-SIG) 2X 44MSEC 11. 4x 1947x10 INLET PRESSURE11X 44MSIA F15.2 / 57X 22HFUEL IN INMPROATURE RY 148 F18.1) If Ax 1945x10x10 INLET PRESSURE 11X If Ax 1245x10x10 F18.1) If Ax 1245x10x10 F18.1) If Ax 1245x10x10 F18.2) If Ax 1245x10x10 F18.2 SURE 14X 444PSIA 1PE15.4.4X 11474RCAT AR NO SWSO 1X E14.4 / 4X 6474RUST 24X 341RF E16.4.4X 11474RCAT AR NO SWSO 1X E14.4 / 4X 6474RUST 24X 341RF E16.4.4X 1647ARCAT AR NO SWSO 1X E14.4 / 4X 647RUST 24X 341RF E16.4.4X 1647ARCAT AR NO SWSO 1X E14.2 / 4X 647RUST 24X 344CFFICIENCY 18X E12.12.2 / 4X 24MOFF-PERICO PRECEDING PULSE MSEC OPF15.1) E12.12.2 / 6X 344CFFICIENT 12X F19.4. 4X 344CFF-PERIOD FOLLOR	PPRT052
4MPSILGFFIS.27	PRESSUR
IN 4% INFORMATION INCLUDENCE IN 4FFS IN FIG. 7 STX SCHEDEL IN TRWDFGLTURE 8Y 194 FIRE 1) If AN INCLUDENCE RESIDENCE IN THE CSTRSS, PAMB, ECSS, OFFI IT AN ILO, PUSSS, AT, FSS, AEXITO CSTRSS, PAMB, ECSS, OFFI IT AN ILOMOPHMER PRESSURE 14X 4HPSIA IPEIS.4,4X INTHROAT AR ON SWG IN ELA,4 / 4X 6HTHRUST 24X 3HLBF E16.4,4X IGHNOZZLE E) ON SWG IN ELA,4 / 4X 6HTHRUST 24X 3HLBF E16.4,4X IGHNOZZLE E) ON SWG IN ELA,4 / 4X 6HTHRUST 24X 3HLBF E16.4,4X IGHNOZZLE E) ON SWG IN ELA,4 / 4X 6HTHRUST 24X 3HLBF E16.4,4X IGHNOZZLE E) ON SWG IN ELA,2, 4X 34HOFF-PERICO PRECEDING PULSE MSEC OPFIS.I) FILE IPP CRES, CFF2, ECFS, SIMPSS, TWALLZ, ESISS ATLAY IGHTHROUGT COEFFICIENT 12X F19.4, 4X 34HOFF-PERIOD FOLLOR	۽ پ
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ATILY 1245TELSV-STATE 39X 22HOXID INLET TEMPERATURE 8X 1HP PPRTO 1 4 4x LOMCMANSER PRESSURE 14X 4HPSIA 1PE15.4.4X LIMTHROAT ARPPRTO 9x 5x50 1x E14.4 / 4x 6HTHRUST 24X 3HLBF E16.4.4X LIMTHROAT ARPPRTO 9x 5x50 1x E14.4 / 4x 6HC-STAR 24X 6HFT/SEC OPF13.1. 4X PPRTO 6x72LF Extractions 10x 4mPSIA 1PF15.4 / 6x 10HEFFICIENCY 18XPPRTO 6x12F12.2, 4x 34HOFF-PERIOC PRECEDING PULSE MSEC OPF15.1) PPRTO 6x14x 19x7 CR59, CFF2, ECF55, SIMPSS, TWALL2, ESISS 6x14x 19x7 HPRIO FOLLOMPPRTO	FF1
IN AN ICHEMSER PRESSURE 14X 4MPSIA IPE15.4.4X INHTHROAT AR ON 5MSD IN E14.4 / 4X 6MTHRUST 24X 3MLBF E16.4.4X ICHNOZZLE EXALL 14X 5MSC IN E14.4 / 4X 6MC-SIAR 24X 6MFT/SEC OPF13.1. 4X MC-ZLF EYIT GWEGSURE 10X 4MPSIA 1PF15.4 / 6X 10MEFFICIENCY 18X CT 28F16.2.2. 4X 34M0FF-PERIOD FOLLOW 18X CT 128F16.2.2. 4X 34M0FF-PERIOD FOLLOW XY (4Y 1847MPUST CCEFFICIENT 12X F19.4. 4X 34M0FF-PERIOD FOLLOW	PPRTO
IGM 5450 IN E14.4 / 4X 6MTHRUST 24X 3MLBF E16.4,4X 16MNOZZLE EXASTA 14X 9HSC IN E14.4 / 4X 6MC-STAR 24X 6HFT/SEC OPF13.1, 4X MMCZZLF EYIT PWESSURF 10X 4MPSIA 1PF15.4 / 6X 10MFFFICIENCY 18X PCT 18F16.2, 4F 34MOFF-PERIOC PRECEDING PULSE MSEC OPF15.1) TF16.12?) CF5°, CFF2, FCF55, SIMPSS, IWALL2, ESISS MATCA 10HTHPUST CCFFFICIENT 12X F19.4, 4X 34HOFF-PERIOD FOLLOW	ARPPRT060
AND 14% SHIN IN E14.4 / 4% CHC-SIAM Z4% CHFI/SEC OPFIZ.1. 4% MACZIL EVIT GRESSURE 10% 44PSIA 1PFIS.4 / 6% 1CHEFFICIENCY 18% GCT 20F16.2, 4% 34MOFF-PERIOC PRECEDING PULSE MSEC OPFIS.1) YELL,12%) CRSC, CFF2, FCFS5, SIMPSS, TWALLZ, ESISS WATLAY 1647#90UST CCFFFICIENT 12% F19.4, 4% 34HOFF-PERIOD FOLLOW	EXPPRT061
CT 18F16.2, 4F 34HOFF-PERIOD PRECEDING PULSE MSEC OPF15.1) F(L, 122) CF5°, OFF2, FCF55, SIMPSS, TWALL2, ESISS A*(4* 1847HPUST CCFFICIENT 12% F19.4, 4% 34HOFF-PERIOD FOLLOW	X X X
F(4,122) CFSC, OFFZ, FCFSS, SIMPSS, TWALLZ, ESISS **(4* 1847#9UST CCFFFICIENT 12% F19.4. 4% 34HOFF-PFRIOD FOLLOW	-
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U L S E SUPPROGRAM BLOCK

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P U L S F SUBPROGRAM BLOCK

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k t	٠ <u>.</u>	FUNCTION DENCTO(T) COMMON / SCARFEY/ BUM1(7), MPVAPO, OUM (72), TTPVO(12), TPVAPO(12) COMMON / SCARFEY/ BUM1(7), MPVAPO, OUM (72), TTPVO(12), TPVAPO(12) COMMON / SCARFEY/ BUM1(7), MPVAPO, OUM (72), TTPVO(12), TPVAPO(12) COMMON / SCARFEY/ BUM1(7), MPVAPO (12) TANPYO(1) = ALCO(TPVAPO(11))	PVCXC020 PVCXC060 PVCXC060 PVCXC0100 PVCXC0100 PVCXC0100 PVCXC0100 PVCXC0100 PVCXC0100 PVCXC0100

U L S E SUBPROGRAM BLOCK

PUND0330 PUND0340 PUND0350 PUND0360 PUND0370 PUND0360	PUND0390 PUND0400 PUND0410 PUND6420	PUNDO430 PUNDO440 PUNDO450	PUNDO470 PUNDO480 PUNDO490 PUNDO500	PUNDO520 PUNDO530 PUNDO540 PUNDO550 PUNDO560	PUNDO 610 PUNDO 620 PUNDO 640 PUNDO 650 PUNDO 650 PUNDO 650 PUNDO 670 PUNDO 690 PUNDO 700
D C Y C L E /) NTVDEF, NTVDEO,	EHTH, COEHTC	* BLANK FCFSS Alved Alved			
10) 141 27X 36HPUNCHED CARD OUTPUT FOR 20) NSPACE, NTWALL, NTVEF, NTVEO, CID, MSEQ 10X 5112, A4, 14) 30, NSPACE, NTWALL, NTVEF, NTVEO.	CID, NSEQ (6112, A4, 14) 1(STDPW, HTLOSS, TGASSS, TCWSS, 1(TAMB, PAMB, TLC, TLF,	I VVALE, VVALC, AT, AEXIT, I SIMPSS, CSTRSS, CFSS, ESISS, I WDSSF, WDSSD, FSS, PNSSS, I AOVEE, AOVEE, AIVEE,	(TAVEF, NTVEF, CID, NSEQ) (TTVEF, NTVEF, CID, NSEQ) (TAVEO, NTVEC, CID, NSEQ) (TTVEO, NTVEO, CID, NSEQ) (TAVOEF,NTVDEF,CID, NSEQ)	(TTVDEF,NTVDFF,CID, (TAVDED,NTVDEO,CID, (TTVDEO,NTVDEO,CID, (PSPACE,NSPACE,CIE, (TTWALL,NTWALL,CID, CE	J=1,NTWALL PUN(TWF (1,J), K, CID, NSEQ) PUN(TWG (1,J), K, CID, NSEQ) PUN(TTIA (1,J), K, CID, NSEQ) PUN(TTIF (1,J), K, CID, NSEQ) PUN(TTRISE(1,J), K, CID, NSEQ) PUN(TTRISE(1,J), K, CID, NSEQ) PUN(TTRISE(1,J), K, CID, NSEQ) PUN(TTDRP(1,J), K, CID, NSEQ) PUN(TTDRP(1,J), K, CID, NSEQ)
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P U L S E SUBPROGRAM BLOCK

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PUNDO720 PUNDO730 PUNDO740 PUNDO760 PUNDO380 PUNDO580

SUBRCUTINE IGN(K)

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D C V C L E. SURPROGRAM BLOCK

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SS. QSEDSS. TGASSS. TWO(12.6). TYTRIS(12.6). TPOYER(12.6).	MPS. JPAGE.	IPULSE, IDCYCL TAMB, PBARSE,	TOROP, TIOROP, PNS, THRUST, SUMPC, SUMPCA,	// S E S / //		CYCLE (DCYCLE	
QSBF: •6)• 12,6)• 0RP (1)	1000	ITOK. TIME, KWWALL	TRISEZ, CHFZ, TWALLM,	CYCLE ANA		ANCE MEDEL DUTY	
DEHTH, COEHIC, TOWS • TIWALL(6), TWF • TIB(12,6), TRIS 6), TIDROP(12,6), 6), TIPDTA(12,6),		~ ~ ~ ~	TRISE, TIRISE, PAUDTH, DFF1, TIA, TWALL2, TWALL2,	U T Y C Y BPROGRAM D	DPUNIN	ODE PERFORM ECFQ 4 // 1x 8H	
DCYCLF LDYC/ COEHTH. PACE(12), TTV IA(12,6), TTIE RIS2(12,6), TIE	YCOM/ DCMAT (IL IN	OMI/ SUMIMP, POVER, CXFRAC, TITAIL,	777 37X 37 P M P M 2 REVISION	O) CALL	DCMAT NSEQ. FCFQ SF12.8) 26X 56HPULSE MO DCMAT. NSEQ. 16A4 / 19X 18A4	
SUBROUTINE DCYCLE COMMON /PULDYC/ COEHI 1 PSPACE(12), 1 2 TTIA(12,6), TI 3 TTRIS2(12,6), 4 TTITAL(12,6),	CORMON /LC	CCMMON ZPULC	CCMMON /PCOP	WRITE(6+4) 4 FORMAT(1H1 // 1 36% 38HWITH 2 47% 15HSEP 7	IPULSE.F = 0 F = 0. C = PSPA LL = TAM	READ(5,10) 10 FCRMAT(1844 READ(5,20) 20 FORMAT(112, WRITE(6,30) 30 FCRMAT(1H) 1 PRCGRAM WRITE(6,40)	

D C Y C L E SUBPROGRAM BLOCK

DCYC0222 DCYC0230 DCYC0250 DCYC0250 DCYC0270 DCYC0280 DCYC0290 DCYC0300 DCYC0310 DCYC0310 DCYC0310	DPUNO010 DPUNO030 DPUNO030 DPUNO040 DPUNO070 DPUNO072 DPUNO072 DPUNO094 DPUNO094 DPUNO094 DPUNO096 DPUNO096 DPUNO096 DPUNO096 DPUNO096 DPUNO096 DPUNO096 DPUNO096 DPUNO097
F7.4) C 100 ISEQ=1,NSEO FFA = OFFC FAD(5,50) NPS, JPAGE, PWIDTH, OFFB, OFFC OPMAT(2112, 4E12.8) RITE(6,60) NPS, JPAGE, PWIDTH, OFFB, OFFC CRMAT(9H1 NPS = 110,8 H JPAGE = 110,8 H DPAGE = 100,3 } CALL SYNTHE ONTINUE	SUBRCUTINE [PUMIN] COMMON /SVV/ NP, NAP, NMR, DUMI(5), MTDF, MTVF, DUM2(4), MTDC, MTVG, TXF, TXG, LMBDEF, LMEDEG, DUM3(18), WDSSF, WDSSG, DUM4(19), NEPS, PAMB, AEXIT, ECFVAC, VMACH, ECSTRI, PNSSS, PIESS, RVAPE, RVAPO COMMON /CCMPM/ JAPE, NPEC, ICRTSD, VOLC, AT, LCHAM, DCHAM, AGCHAM, BCCFSS, ECSS, ECFSS, FSS, SIMPSS, CSTRSS, CESS, OXERSS, HTLOSS CESS, OXERSS, HTLOSS COMMON /PULFED/ TLF, TLO, VVALF, VVALG, NTVEG, NTVDEF, NTVDEG), TAVEG(9), TAVEG(12,6), TIBRIS(12,6), TIBRI
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D C Y C L E SUBPROGRAM BLDCK

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PT, TOFF, TLAST, COMB, VF, WCUMVO, PVALF, PVALO,	NTVED, NTVDEF, NTV-ED	WSS, COFHIH, COFHI	F. PVALF, P	EXIT, ECSTRI, E	ISS, ECSSS, ECFSS	SSS, AUVE	Alvoef, Aovded, Alvoe																									
NFIRST, INITB, TSTAPT, ISPACE, PIE, WCUMVE, AVE, AVE, STOPW	, NTHALL, NTV	PH. HTLOSS, T	PAME, T	F, WYALC, A	MPSS, CSTRSS, C	SSF, WESSE, FSS;	CVFF. AIVFF. A		: (I), I=1,	(I), I=I,4TVF	(I), I=1,	(I), I=1	F(I), I=1	F(I), I=I,NTVDE	TAVECC(I), I=1	TIVDEC(I), I=1,NTVDE	PSPACE(I), I=1,NSPA	TTWALL(I), I=1,NTWAL		*TWALL	u.	[([,1]), I=]	IA (I,J), I=1	1F (1,3), I	RISE(I,J),	21S(1,0), I=1,	RIS2(I,J),	DACP(I, J),	ICRP(I,J),	(TPCVER(I,J), I=1,K)	TITAL (I, J),	(TIPDIA(I)), I=1,K)
n m 4	OFFICE STOR	PEAD(5,20)	· Pical	^	m	4	u'	DOMETICE	545 (5.2C	£45(5,20	02 4 3 1 4 3	E40(5,20	F10(5,20	E40(£ *20	FAC(5,20)	£47(5,26)	EAT (. , 2C	102.3102	E NSPACE	7 96 G	540 (5,20	216100	EAE (5 + 2	E 40(5.2)	215)283	FAD(5.2	E4015+2	54018+2	EAL (5,2)	8 F £ 10 (5 , 20)	FAD(5)2	200120

C Y C L E SUBPROCRAM BLOCK

SYNTHE CCM. DCMAT(36), NSFO, ISEO, NPS, JPAGE, CCM. DCMAT(36), NSFO, ISEO, NPS, JPAGE, CCM. CCFHTH, CCEHTC, TCMS, CSBESS, GSBOSS, TGASSS, SYNTOOGO LECF(12), TIMALL(6), TWF(12,6), TMO(12,6), SYNTOOGO LCCF(12), TIMALL(6), TRIS(12,6), TMO(12,6), SYNTOOGO LSCRIS, TIME(12,6), TIME(12,6), TMO(12,6), SYNTOOGO LSCRIS, MSPACH, TRIBE(12,6), TMOVER(12,6), SYNTOOGO CCM, NN, IIGN, DTIME, TIME, TAME, PBARS, SYNTOOGO WEIRST, INITE, TSTART, TOFF, TAME, SYNTOOGO WEIRST, NITE, TSTART, TOFF, TOME, SYNTOOGO WEIRST, TRISE, TRISES, TRISE, SYNTOOGO WEIRST, TWISE, TRISE, TRISE, SYNTOOGO WEIRST, WES, WOSSO, SYNDE(25), PNSS SYNTOOGO CCM, WOSSE, WOSSO, SYNDE(25), PNSS SYNTOOGO CCM, WALL, JAZ, NX, FXI, FXZ COMOUN(9), ESISS, ECSS, ECSS, SIMPSS, SYNTOOGO SYNTOOGO WALL CC TC 10 SYNTOOGO SYNTOOGO WALL CC TC 10 SYNTOOGO SYNTOOGO SYNTOOGO WALL CC TC TC TC SYNTOOGO SYNTOOGO SYNTOOGO WALL CC TC TC TC SYNTOOGO (TIPDT5(I,J), I=1,K) 0 0 0	0PUN0630 DPUN0640 DPUN0980 DPUN0990	
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##	CFFE, OFFC, 1P, ECFQ H, CDEHTC, TCWSS, CSBFSS, QSBDSS, TGASSS,	2 4 3
TIPDIA(12,6), TIPDIB(12,6) RPCNB, NSPACE, TIME, TAMB, PBARSE, SYNTOOB RPCNB, NSPACE, NTWALL, INITIC, INITICE, SYNTOOB INITE, TSTART, TOFF, TLAST, COME, SYNTOOB AVC, STOPW, IPPRT; ICRTP STOPW, IPPRT; ICRTP STOPW, IPPRT; ICRTP STOPW, IPPRT; ICRTP STOPW, ITAISE, TRISE2, TORCP, TIDRGP, SYNTOII SUMPC, SUMPCA, TITAIL, TWALL, TAUIGN SYNTOII 29), WOSSE, WOSSO, SVVDZ(25), PNSS SYNTOII 24), HTLOSS, CR, ECSMIX, ECSENR SYNTOZO F) CFG)** CFG)*	<pre>:MALL(6), iMF(1Z+6), IMD(1Z+6), IB(1Z+6), TTRISE(1Z+6), TTIRIS(1Z+6), TTORCP(12,4), TTIOSP(12,4), TDOVED(12,4).</pre>	z a i
RPCNE, NSPACE, NTWALL, INITTO, 101703, SYNTOOB INITE, WE, WC, TOFF, TLAST, COME, SYNTOOB AUC, STDPW, IPPRT, ICRTP SYNTOOB ISE, TRISE2, TDRDP, TIDRGP, SYNTOOI SUMPC, SUMPCA, TITALL, TWALL, TAUIGN SYNTOII SUMPC, SUMPCA, TITALL, TWALL, TAUIGN SYNTOII HUDSS, ECSS, ECFSS, SIMPSS, SYNTOIS SYNTOIS SYNTOIS SYNTOIS SYNTOIS SYNTOS	TIPDIA(12,6), TIPDIB(12,6)	
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ALEM, SUWPC, SUMPCA, TITAIL, TWALL, TAUIGN SYNTOLISM, SUWPC, SUMPCA, TITAIL, TWALL, TAUIGN SYNTOLISMOSS, WDSSC, SUWPC, SUMPCA, TITAIL, TWALL, TAUIGN SYNTOLISMOUK(9), ESISS, ECFSS, ECFSS, SIMPSS, SYNTOLISMOUK(3), HTLOSS, CR, ECSMIX, ECSENR SYNTOLISMOUK(3), HTLOSS, CR, ECSMIX, ECSENR SYNTOLISMOUK(3), HTLOSS, CR, ECSMIX, ECSENR SYNTOLISMOSS SYNTOZOSPACF) SPONTOZOSPACF) SHL2-TCWSS/TGASSS) SHL2-TCWSS/TGASSS)	TPISE, TIRISE, TRISE2, TOROP, TIDROP,	<u>ب ج</u> د
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C Y C I. E SUBPROGRAM BLOCK

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            # CMT/(TGASSS#EML2#(1.+CMT))
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C C V C L F SUBPROGRAM BLOCK

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JXI,FXI) JX2,FX2)	SSSNd#Ad				6	97 ST				FI BX 4HDFF2 BX	AC1 7X T	6X SHSPIMP 7X			OFF1, OFF2, TWALL 1, TWA! * WO, TI, TRISE, TRISE RISE, TIOROP, SPIMP,
FAC(JKI,CFF2X,PSPACE,NSPACE, FAC(JK2,TWALL2,TTWALL,NTWALL, IMTSP(TTERSP,C) DINTRP(TTERSP,C)	OINTRP(TIPDIB,1) + DEL		71 (*DZKE+SUKKO)	ان ان	10 20	CA. 1F.VE.NPS) CC TO		ري سو ري	00 TP 34	AST OK SPPHISTH 6X	6X 6HTWALL2 6X 6HT 10X 6HTR1SF 7X 6HTR	TIG OF CHTIRISE OX CHTI		-	THALLS, TEFACT, WE OVER, TIA, TIB, TI
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PAGE A -233

D C V C L E SUBPROGRAM BLOCK

SYNTO692 40 FORMAT(4x 6M1850 = 13, 6M, IP = 15 / (4x IP8512.3)) 5 FORMAT(4x 6M1850 = 13, 6M, IP = 15 / (4x IP8512.3)) 5 FORMAT(4x 6M1850 = 10.5) 5 FORMAT(26.46) 5UMMF. SUMMT., SIMEAN, XMRMN 5 FORMAT(28M0 CUM PERFORMANCE SUMMFE IPE10.3, 7H SUMMO= E10.3, SYNTO720 5 CONTINUE = LIME - 2 5 FORMAT(28M0 SYNTO730 SYNTO740 SY	SYNTO692	SYNTO 702	SYNTOTIO	E10.3,SYNT0720	SYNTOTEO	SYNT0732	SYNTO740	SYNTO760	SYNTOTO	S4NT0980	SYNT0990
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DELTW, LF, LO, LIF, LIO, TMAX IGNOOZOO NO CVG, KCG, MGN, MTG, MUG IGNOOZOO G, MG, MGN, D, KTP, GVW, D, KTP, TGO, IME, TIME, PCDUM(12 9), TAUIGN MTC, MUG, MVI	2 ₹	
G. MG. MGN. MTG. MUG. D. KTP, TGO. MI IME, TIME, PCDUM(12); 9); TAUIGN MTG. MUG. MVI - 1.1/(Sign - Sign)	G, MG, MGN, GVW, COW, 150, IME, TIME, PCDUM(12) 9), TAUIGN MVI MTC, MUG, MVI - 1.1/653GN - SIGN	LF.
D, KTP, TGO, MI IME, TIME, PCDUM(12), 9), TAUIGN MVI MTC, MUG, MVI	D, KTP, TGO. IME, TIME, PCDUM(IZ 9), TAUIGN MTC, MUG, MVI - 1,1/653GN - SIGN	X 3
IME, TIME, PCDUM(12), 9), TAUIGN MVI MTG, MUG, MVI - 1.1/(53GN - SIGNL)	IME, TIME, PCDUM(12) 9), TAUIGN MIC, MUG, MVI - 1.1/653GN - SIGNL	CTD
MIC. MUG. MVI - 1.1/(53GN - SIGNL)	MIC. MUG. MVI MIC. MUG. MVI - 1.1/6536W - SIGNL	113
MTG. MUG. MVI - 1.1/(536N - SIGNL)	MIC. MUG. MVI - 1.1/6536W - SIGNL	0
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PARE A -235

PULSE / ICN SURPPOGRAM BLOCK

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	TCIN2540	0460
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FUNCTION DENF(T)	DENFI	1020
COMMON /IGNFED/DUM1(4) NRHCF, DUM2(3), TTALF(12), TRHOF(12)	DENFUCEO DENFUCEO DENFUCEO	1040 1060 1080
DENF = YOF (TOTTRLE, TRHOF, NRHOF, 2)	DENFU100	1100
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FUNCTION DEND(T)	DENDXOZO	020
COMMON /16NFFD/DUM1(5),NRHOO,DUM2(26),TTRLO(12),TRHOO(12)	DENDX 040	080
DENO = YOF(T,TTRLO,TRHOO,NRHCO,2)	DENOXOBO DENOXIOO	(080 (100
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IF(T60.61.TG .OR. T60.LF.0.0) T60 = TG	TCINZEO
RETURN END	TCIN2640 TCIN2640 TCIN2660
FUNCTION DENF(T)	DENFUOZ
COMMON /IGNFEL/DUM1(4);NRHOF;DUM2(3);TTRLF(12);TRHOF(12)	DENFUOGO OBNFUOGO
DFNF = YOF(T,TTRLF,TRHOF,NRHOF,2)	DENFC10
RETURN END	DENFU140
FUNCTION DENO(T)	DENDX020
COMMON /IGNFED/DUM1(5).NRHDO.DUM2(26).TTRLO(12).TRHDO(12)	DENOXO4 DENOXO6
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DENO = YGF(T,TTRLO,TRHGO,NRHCO,2)	DENOXIOO
RETURN	DENOX140

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X,'J',5X,'NDF(1,J)',2X,'NDF(2,J)',2X,'NDF(3,J)',4X,'R X,'RDF(2,J),FT',4X, ',3X,'TDF(1,J)',2X,'TDF(2,J)',2X,'TDF(3,J)'//) NUP F(J)) GO TG 2102 J.(NDF(1,J),1=1,3),(RDF(1,J),1=1,3),(TDF(X,J),1=1,3)	x,2F1(.1,1P3E15.3,0P1F10.1,2F10.1)	%;'J';5%,'NCO(1,J)',2X;'NDO(2,J)',2X;'NDC(3,J)',4X,'R X;'RSG(2,J);FT',4X; ',3X,'TCG(1,J)',2X,'TDO(2,J)',2X,'TDO(3,J)'//' NUP C(J); GC TC 2104 J.(NOO(1,J).1=1.3).(ROC(1,J).1=1.3).(TOC(1,J).1=1.3)) K, *\" , 2 X, * TIME, MS *, 3 X, *PG, MMHG *, 4 X, * TG, R *, 5 X, * MGNs LB * * * PVF , PS F *, 4 X, * MDVO, LB *, 4 X, * MDVF , LB *, 6 X, * MI, LB *, 2 X, * 6, 2108, 2112	ALCULATION TERMINATED DUE TO N = ", IIO/IHI) *2004, 2804 **VF **LOULATION TERMINATED DUE TO MVF = ", E15,7/1HI)	6,2008,2008 1 WVC CALCULATION TERMINATED DUF TO MVO = , E15,7/1H1) NTR
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** * **	アンコング かいこうしゅ かいしょう しゅうしゅう しゅうしゃ しゅうしゅう しゅう	IGFU4880	Ö
34131	.Cf. JWALL+THTF/OELTNF) GO TO 328	ICFU4890	0
	FOR ASS - (NS - SEALL) *DFLT4F* (FMAXF-FMINF) /THTF) *DELTNF/DELTN	IGFU49	Ö

PULSE / 1CM SUPPROCRAM BLOCK

	€ (**)		16FU5000 16FU5100 16FU5160
·		102 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16FU5250 16FU5350 16FU5300
	4 2 3	1000 to 1000 t	16FU5350 10FU5490
	410	1. 电电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电	16FU5450 16FU5500
		# * * * * * * * * * * * * * * * * * * *	16FU5550 16FU5600
	\$ 43 		16FU5650 16FU5700
Ų		REFILED A DEDIVIOL OF THE RESIDENT TOWN TOWN TOWN TOWN THE SERVE AND THE SERVEN A	16FU5750 16FU5850
		703 # 0 % A W A W A W A W A W A W A W A W A W A	16505900
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	- P1 - P1 - P1		16706000
Ü		シンギン かび	16FU6100
٠,		(表表介字由布象)	*IGFU6150
با يا		SECOND AND CATOLIAN SECOND CONTRACTOR CATOLIAN S	10506200
	3 6	ALPINA	1 GFU 6300
•	۲,) T + 4 4 7	16FU6500
٠		ا بران الاستار الاستار	16FU6550
		Service a Service service service and the service serv	16FU6600 16FU6650
		SEVEN TO CONTRACT OF SEVEN TO	16FU6700
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٠			IGFUAROD
ı	4.3	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	IGFU6850
	•	1) N 3 3 L 9 7

16FU6950 16FU7000 16FU7020 16FU7100 16FU7100 16FU7250	3 5	10550300	Š	Š	S	ؿ	3	ؾ	S	3	5	C	3	3	S	۳	٣	5	3		7	Ü	ິວ
ove/cPG C•#TG1)		TEAX	OELHRY			MUG						*CF	FRINE	N.						U	PENNO	02.	
* MFR*CPVF/CI S*TG/(JC*KTG		1017	DELHRC		ACC.	M TG.	A THEMS	401)			4041	₽ F	MAXF	ľ		401)	<u>.</u>		4011	ロスコエ	FMAXO	THETAD	
# XVF) }		LIF	EIGN.		.	*20E	O KE	W)	640			CPVF		L.	*I™	40	9		LAKADI	CPVO	TETO	DEL TNO	012
VI/(LF -		F O.	G	;- -		₹C.	CVP	4011,	* *			ř3 T	STENF	ママド・	KOF.	101)	3,401),	*01)	* 1 1		2	PVC.	
7 A P P P P P P P P P P P P P P P P P P		LF,	EINT,	XHOX	₹	KCG.	*IAE	RDF (3.	SECON C	TIMOFIC	,04) JOS	LIMPE	ALPHAF	こくとで	MEALLE	\$000 to 1	COCCES	COMMIL	101 (40)	この選挙	ALPHAD	*ロネトコ	MMALLO
		BELTN.	A LIKIL .		STAR	•		•	•	•			T T T	• ! *	<u>.</u>	-	•	•			LEBERCO	ないとは、	<u>.</u>
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CALCULA CALCULA	2 · · · · · · · · · · · · · · · · · · ·	/1001/	10001		ノモンジュノ			ノングンシン			\ ¥					1464541			\ %	\			
126 2 0 7 3 6 7 3	3MILADOWAS	Server Hood	PUR BOU	•	子がままじな	ないままらい	* **	かいき 年のな	*	·	TOWN A UU	というこうじ	•	Pai Pai	÷ ėì	いいままり	•	*	なける無句も	を行る。そのひ	*	* .	F1
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DO(2,1)*FACT
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- RHOF 4./3.*PI*RDF(+ CPLF*(TJF -
JO PHOC
4./3.*PI*RDO!
IGUXID
01.5
FIGNZ/ DFINT, AIIMI
CPG.
/16/6/ NDD (3,40) TDT (3,40)
JWALLO (401
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SCOX DESC
                                          160X0692
          GOX0650
                      0730X02
                                0890X09
                                                      $690X091
                                                                 30X0696
                                                                           06%0X09
                                                                                                                                            GOX 0800
                                                                                                                                                       GDX0850
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                                                                                      OCKOXO9
                                                                                                 GDX 0720
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                                                                                                           GDX0720
                                                                                                                                                                             7180809
                                                                                                                                                                                                 GUX 1000
                                                                                                                                                                                                             60X 1050
                                           DV3(2)
         FMAXO, FMIND
                      DEL TNO, THE TAD, NO
                                                                                                                                           6C, RFPS, RCGS, JC, PI/ 32.174.1545.3,1.9872,777.65,2.14.59/
                                                                                     LIMPO
                                          MIVOS
MUVG
                                                                            V JOS
                                                                                     LITO,
                                                                                                 MDAO.
                                                                                                           MTVD.
                                                                                                                                                                                                                                                                                                             = C(I)*MMD/(4.*PI*RDD(I+1)**3*RHDDD(I+1)/3.)
                                           DV2(4),MTDO
          TH 10.
COAD.
                                                                           DV4(3) ENJO.
                                OIN
                                                                                     LIWD
                                                                                                MDV.
         LMBDSO.LMBDFO.ALPHAD.STEND.
                                                                                                                      MWALLD, ND,
LIMPO, CPSO,
                      PVO
                                MWALLO, KDO,
                                                               TOFPO, CPLU
                                                                                                LMBDEO, LMBDSO, LMBDFO, ND,
                                          MTVF.
                      CVVO.
                                                                            TJF.
                                                                                                                      MVWO.
                                                                                      KCG.
                                                                                                            MWD.
                                                      LMBDEF+LMBDEC
LITO
                     EDVO,
                                MDVO.
                                                               /IGNFED/ TOFPF,CPLF,
                                          DV1(8),MTDF,
                                                                             くして、
                                                                                                                                                                                                            PEGIN CXIDIZER CALCULATIONS
                                                                                                                                                                                      MAXJ = MAXO(MAXU.JMAXD(1))
                                                                                                                                                                                                                     IF(LC*N-NG)2000,2000,1300
                                                                                     JWALLO,KCD,
                                                                                                                      MVC.
                                                                                                                                                                                                                                                                                                                                                                               = JWALLO(J)
                     EVO.
                                                                                                                                                                 IF(N.GT.1) GD TO 1002
                                                                                                                                                                                                                                                                                                                       MANO(NO+MAXC)
                                                                             *LT*
                                MVC.
                                                                                                                                                                                                                                                                                                                                                                                        JMAXO(J)
                                                                                                           MGN.
                                                                                                                      MVI,
                                                                            VIGNEGE/
                                                                                                                                                                           MAXJ = JMAXC(1)
                                                                                                                                                                                                                                                                                       NUMBER OF DROPS
 /ICN6A/
                                                                                                                                                                                                                                                                 INJECTED MASS
                                                                                                                                                                                                                                                                                                 DO 1510 I=1,3
                                                                                                                       *CANW
                                                                                                 CHAT!
                                                                                                                                 JERL
                                                                                                                                                                                                                                                                                                                                                                               MDVG = 0.0
                                                                                                                                                                                                                                                       0.0 =
                                                                                                                                                                                                                                                                                                                                                                   JF(I.GT.13
                                                                                                                                                                                                                                                                                                                                                                                         JMAXC(J+1)
                                                                                                                                                                                                                                                                                                                                                       NOO (I + J+1)
                                                                                                                                                                                                                                 NC = NO+1
                                                                                                                                                                                                                                                                            MMD & WJC
                                                                                                                                                                                                                                                                                                            NDO(I,1)
                                            COMMON
                                                                                                                                                                                                                                                                                                                                               NUMMUU
                                                                COMMOS
                                                                           COMMOS
                                                                                                                                                                                                                                                       FDVO
                                                                                                                                                                                                                                                                            1303
                                                                                                                                                                                                                       1003
                                                                                                                                                                                                                                 1300
                                                                                                                                                                                       1002
                                                                                                                                                                                                                                                                                                 1305
                                                                                                                                                                                                                                                                                                                                             1500
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3

IGOX2284	160X2300	150X2350	160X2406	160X2450	IGDX2500	IGUX2550	160X2600	160X2620	160%2630	160X2650	IGDX2670	ICDX2700	160X2730	160X2750	IGDX2760	160%2770	160X2780	IGUX2800	ICOX2850	IGUX2900	I.GDX2950	IG0X3000	160X3050	165X3100	ICCX3150	IGOX3450	ነር የጎ	IGUX3550	60X36	1000xx000x	IGDX3920	ູຕ	160%3960
																								5								ALPHAG*AD*(PENCTO(TD)*SQRT(MTDO)	PVD*SGRI(MIVO))*DELIND*DI/SGRI(ID)
1+1	F(J.GT.1)	510 CCNTINIE	הט ≔ ר	1004 J = J-1	EG I'N	# H		F(J.GT.J%AXD(MALL - UN	r*I)DON = O	0 = VDC(1+1	D = RDO(I)		(r41)001 = 0	HOD = RHODO	MBD ≈ LMBDED	F(TD.LE.TDFPC) LMBD = LMB	IF (RD-1.0F-1	00(1,041) = 0	00(I+P+I) = (00(1,0+1)	60 TC 1331	MASS AND SURFACE AREA	0 11 4°*P	ACT IN 4 OMP I MONAMA	ROP QUALIT				YAPORATION	0.0	IF(TIMEMS.GE.TIMPO(J+1)) MDV =	S*DA - 1551*

	*LE.O.O) GO TO 1320 T ENERGY IS PREVENTED	160X3980 160X4000
	XMDV = (UD-MD*CPSO*TDFPG/2.)/(UD/MD+LMBD-CPSO	IGUX 4029
	T TRA	160X4040 160X4250
20	0.0	160X4300
	-MG)132	IG0X4350
22	** * * * *	160X440C
)*9*0+0	IG0X4450
	**MDV/(2.0*PI*KCG*RD*NU*DE	IG0X4500
	1)10	ICOX4550
24	0	IGUX4600
	_	IG0X4650
56	(EXP(Z	100X4700
• -	Z* (NU%	160X4750
	AT TRA	ICUX4800
o O	0.0 # O.0	ICOX4850
	_	IGDX4856
	L.GT.J) GC TO 1007	ICOX4860
	CALCULATE WALL HEAT TRANSFER FACTOR.	1GDX4870
	NO*DELTNC/DELTN	1GDX4880
	IF(MO .GE. JWALL+THTO/DELTNO) GO TO 1328	ICOX4890
	AXO-(NC-JWALL)*DELTNO*(FMAXO	ICOX4900
28	.T.0.8)	IGDX5000
	Ш	160X5100
	BALANCE ON DROP	16DX5150
	IDV*(UD/MD + LMBD) -	IG0X5160
	+J+1) = UC + QMD - E	IGDX5200
	(ID = UDG(I+1)	ICOX5250
	D = MD + MDV	IGDX5300
	ROP TEMPERATURE, DENSITY & RAD	IG0X5320
	SO#TDFPO + LMBDFO - UD/MD 1408,1410,	IG0X5350
90	09(1,J+1) = TOFPD + (UD/MD - CI)	S.
	C_TO_1416	r
O	F(CPS0*T	160X5500
12	DU(I , J+1) =	LC.

1414 1416 C	1416 141) = 141) = 141) = SS AND MDVO 4	160X5600 160X5650 160X5700 160X5750 160X5850
1331 1332 C	= EUVU + -I)1332,1 .GT.1)	160X6000 160X6000 160X6050 160X6100
1334 1338	VAPOR C NSATION = ALPHAO = AMAXI(1GUX6200 1GUX6250 1GUX6300 1GUX6500
J	300	160x6550 160x6600 160x6650 160x6700 160x6750
c 1342 C	IF(MVWO.LT.O.C) EVWO = EVWO + MVWO*CPVO*(TW-TG) MASS BALANCE ON VAPOR WVO = MVO+MPVO-MVWC-THETAO*MVI/LO-MFR*MGN/LO ENERGY BALANCE ON VAPOR EVO = EVC*(1 MGN/(LO*MG) - THETAO*MVI/(LO*MVO)) + MFR*CPVO/CPG* (COVP - OVW + OFYICN*DELTN) / O - MGN*REPS*TG/LO*MTG))	160x6800 160x6850 160x6900 160x6950
2000	+ EDVO - EVWO CO TO 1003 END OXIDIZER CALCULATIONS PETURA FND	160x7040 160x7100 160x7150 160x7200

- 9.84E-5	
C)	RETURN FND

.84E-5	
RDFNCC 9.84E-5	
FUNCTION RDFNCD =	RETURN FND

00000400	00000500
00000410	00000510
00000420	00000520
00000430	00000530

APPENDIX B

CARD CHANGES FOR SPECIAL DECK SETTIF

B-1

FORTGAN H TO IV REPLACEMENT CARDS

CNTRP110 CNTRP120 CNTRP130 CNTRP132	S4HAT020 S4HAT020 S4HAT030 S4HAT040 S4HAT070 S4HAT070 S4HAT110 S4HAT110 S4HAT110 S4HAT110 S4HAT110 S4HAT110 S4HAT110 S4HAT110 S4HAT110 S4HAT110 S4HAT110 S4HAT110 S4HAT110	PUNCCCZC PUNCCCZC PUNCCCZC PUNCCC40 PUNCCC40
∞ ¬ ⊃		77-20
	E12.5,36X	1) IN COL
OIV	% .⊓ .⊓	FCRMAT (NSE 0+
சு ம	512.5,4	E12.5 F
4 m Ct	~×>	9 6
mwa N	E12.5,8	FC) USING 73-76,
7007	(L,F,KL) CN F(4) 4), 72H1 6512.5	A.N.AID.NSFC ARRAY A TED IN COL 7
2 X X	H H H	PUNCH ARE ID (AID) IV VEGSION
CATA CLBL/ c A K K V W W	SUBBOUTINE SAMA FCRIBN IV VER CIMENSION E(12) CNIA A.E. / 6HA4 CNIA A.E. / 6HA4 IS,244 SE12.5.12 ME(KL.6T1) GC INIT = 1 E(2) = 8(J) F(3) = 8(J) F(3) = 8(J) F(3) = 8(J) F(3) = 8(J)	SHEGOUTING LIST E WITH FORTRAN I
H () ()		00000

PACE 5 - 19

FURTRAN H TO IV PEPLACEMENT CARES

_						
P, 6H(10X1F					NSEO	NSEG
DIMFNYION A(1), F(4) CATA KL,BLANK,SPACE /-1, 6H(1P, 6H(10X1P /	69 10 II=1,N+6	VSEC = VSEC + 1 X = XINO(5,2-11)	X + 11 + 21	IP(Newsene) tele symmitmities: F(1) = SPACS	WRITE(5,F) (A(I),I=II,I2), AID, NSEC E(I) = c) ANK	IC PUNCH F; (A(I), I=I1, I2), AID, NSEG
						٦

PUNOO090 PUNOO100 PUNOC110 PUNOC120 PUNOO130

PUNDOCESO PUNDOCESO

PUNCO070 PUNO0080 PUNDO150 PUNDO160 PUNDO170 PUNDO180

STURN END

26F H - 2

SUPPLEMENTARY SYSTEM + DHMMY SUPS

SINDOO10 SINDOO20 SINDOO30 SINDOO40	CCSD0G10 CCSD00Z0 CCSD0030 CCSD0040	ARSINO10 ARSINO20 ARSINO30 ARSINO40	ERRTRA10 ERRTRA20 ERRTRA30 ERRTRA40	TIMEOGIO TIMEOGOO TIMEOOOO
SINCTION SIND(X) SINC = SIN(X/57.2958) RETURN END	FUNCTION COSD(X) COSD = COS(X/57.2958) RETURN FND	FUNCTIEN ARSIN(X) APSIN = ATAN(X/SCRT(1X*X)) RETURN FND	SUBQCUTINE ERRTEA Y = 1. RETURN FND	SUBACUTINE TIME Y = 1. PETURN PETUR

16.)		CPM20860
CALL SITE 2V(4	69,9,1023,90,2,9,1,9HTIME (MS), IL)	CPM20870
SITE 2V(9,370,1023,180,2,20,1,20HFP.ACTICN UNVAPERIZFD,11)	CPMZGEED
OB dla01) HI	O.!) CALL PULPLT	PULS0824
O HIN	RILBL(TITLE, AMAT, ABSI,ORD)	13100010
1	LGRID(K, XI,XZ,YI,YZ, ML,MR,MR,MI, IR)	LGGIDGIO
S	ALE(XMIN,XMAX,ND,X1,X2,DX, IFRR)	SCALE020
SUBPRINTINE LI	INEGIN, X, Y, NDX, NDY, L)	LINECOZO
	PLOTC (AMAT)	PLCTCO10
	CLEVLS (VCLI, WMN, WMX)	CLEVL010
	7.5TACO	CNTE0010
2 LATINGE 611S	CONTOP (K,KX1,KY1,KX2,KY2)	CNIPPOIO
	CONTUR (NCLI, WMM, WMX, AMAT, TITLE)	CCMTR010
-	NE.	PLN0C010
۵	LCT2(";, X, Y], Y2, RAD, ZOM, IEPR)	PL012010
	PLETT	PLOTOCIO
ロハエエにして	S. Interest of the second of t	PPLT0010
074	you.	

INSERT AND OVERLAY CARES

*************************************	01000055
AFOT ACAL F. LANG. LOAD. ORTING WAXWA	599cp2
LEAT PUN SAMAT	22006666
SEET YOF LOCATE XI	99990030
SERT ITRP2, ITRP2	99990032
SEPT DADER, HEADER	07006666
SEPT APZ, ISCR	25006666
ESLAY	05006655
נפנו	25306665
TRES	56660054
FRL AY	09006666
SEPT EFLC4.DS12F,SCOFF	29006666
SERT CSA FOR FIRE	01006666
ERLAY S	7236665
INSERT FFRIN, SELEX, FREY, SURM, SUMZ, SUMV	92306666
SERT PIPT	00106666
AND A CALOR	95990110
FRE	99990120
ERLAY A	99990130
Diskd Loss	26106666
SERT GAP, GAS	99590134
SERT COME, PS, SA	96106666
EPLAY	05106666
1438	29106666
SERT CSTA	77106556
	09106663
0 C X -	99990170
5 F 2 F 2 F 3	22106656
C A#165	72106055
SERT T	92106566
FRLAY C	Ø
SERT CSPRAY, EVA	<u>හ</u>
SERT CPRINT, AVD3	810666
SERT PUSST, PUSS	98106566

INSERT AND OVERLAY CARDS

The East Com!		99990138
יאניין אי נ	:	99990200
Inches Total		99990210
7 AT 14 JAC		99990220
INSFET COM2.PRECEX		06206566
CAESTER B		99990300
INSERT PULSE, FEEDS, FLOW, PENCTE, PENCTS		01206p56
	:	99990312
INCEPT ICHI, 16N2.16W4.CCASG, CTCOMB		99953320
CVFRLAY F		0630666
INSFOT DULSIN, DINIT, VALINP		99990340
UVEDIAV F		09806566
INSERT TOWN +CASCENT FORT		99990370
INSERT ICASX ICASX		99990372
SA TOURN		99990380
INSERT ISM.NTRMPT. (RCC24)ISFUEL, IGFEED, ICCXID. VACIN, DENF, DENG	ON	06806666
INSERT OFFICE OF FULL OF THE SALE OF THE S		00706665
		01706566
i Ailaihu		66666450
INSERT PULFRIPCYCOM		99990430
rvealay f		04406466
INSERT PULLIT PUNCY SAVEC		99990450
نهر د الله الله الله الله الله الله الله ال		39990460
INSTEE DOYCLE, SYTTHE, PROBLEM		02706666

APPENDIX C

INPUT DATA DECK LISTING FOR EXAMPLE CASE

LIUM TC00000010 *F=.03700000030 00000040 00000050	900000	600000	0100000	.3 0000011	0000	.0 0000011	0000012	•c 0000021	.2 0000021	.0 0000021	98 0000022	35 000000 35	R3 0000022	249 0000023	225 0000023	321 0000023	579 0000024	252 00000024	7 0000024	• 0000025	• 00000025	. 0000025	•1 0000031	.8 0000031	.8 0000031	95 0000032	37 0000032	81 0000032	249 0000033	225 0000033	322 0000033
BERRYLI SCARF. DO=.042	0			,		3(26	~	50	~	2	0	~	-		∞	4	30	66	528	Ś	96	56	57	-	2	Ó			
, CR=2.54, TH 22 DEG. 5.3, ORIF		PSIA		•	2.5	•		227.	47.	665.	167	7,	137	1.26	1.22	$\overline{}$	6.72	3.31	4	951	682	91.	226.	640.	657.	166	214	37	.26		•28
PC=100, F=23 22LE EPS=9.WI =.424, LSTAR= SE		P = 100		•	2.2	•		574.	66.	023.	140	213	178	1.29	1.22		5.35	22.46	28.50	84	760	60	563	.099	014.	146	213	178	.29		72.
000 000 00 00 00 00 00 00 00 00 00 00 0	,	I X X V		•	•	•	-	e E	643.	791.	121	12	1981	•35	.22		3,91	1.79	4	617	817	₽	773.	637.	783.	121	212	197	.32	1.229	(1) (1)
6468		Z :			•	•	ن	5	200	174.	10£	90	900	1.32	(c)	1.22	200	1.02	26.413	291.	7/3	25°	502	562.	167.	101	303	2065	6.0	•	22.
#93407 TENYS 60 PCT SELL # MST #441YS	C.			•	•		ċ	010	14.	414.	250	00	211	1.27	.23	ث	3.13	0.14	25.35	506	220	64.	975	406.	403.	ر. ن00	203	11	12.	•	(. (.

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ar.		30.02	3997.	587.	859.	530.	500	356.	321	386	206	1.25	1.22	1.3	18.67	24.56	30,08	27.	476.	730.	616.	335	405.		.775	9 9 9	.718	908*	626	.742	.826	656.	.760	1.8521	966.
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EXAMPLE CASE INPUT DATA

5.83527E-0100006342 2.75434E-0100006343_ 1.29303E-0100006344	5.24171E-0200006345 3.76962E-0300006346	1	00001400	CFF=60) 00007410	00007412	00007414	00007420	00001430	077000	00001450	0970000	0674000	00573333	0192000	02510000
6.48889E-01 3.13017E=01 1.46456E-01	6.15273E-02 9.62233E-03		IERS	30,60,120,240,1K(TOFF=60)		•09	30.	.09	120.	240.	1000.	•09	•09	•09	•09
000	7.60586F-02		TOFF PARAMETERS	TON = 30,60		€0.	30.	•09	120.	240.	1000.	60.	•09	•09	•09
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